..... Governorate
..... Educational Zone
Midyear Exam 201 \ 201

Grade : 5th primary
Subject :Math
Model exam (1)

[A] Choose the correct answer from those between brackets:

(1) If a $\in$ X , then {a} ..... $X^{\setminus}$

(A) $\in$ (B) $\notin$ (C) $\subset$ (D) $\not\subset$

(2) If [2 , a + 2] $\not\subset$ {2 , 4 , 6 , 8} , then a = ...

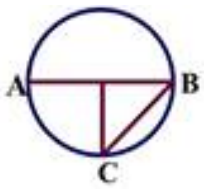
(A) 2 (B) 4 (C) 6 (D) 8

(3) $X \cup X^{\setminus}$ = ...

(A) X (B) $X^{\setminus}$ (C) U (D) $\varnothing$

(4) The chord of the circle M is .....

(A) $\overline{MC}$ (B) $\overline{BC}$ (C) $\overline{AM}$ (D) $\overline{MB}$



(5) if the probability of success pupils is $\frac{8}{10}$ then the probability of the failure is .....

(A) $\frac{1}{8}$ (B) $\frac{3}{10}$ (C) $\frac{1}{5}$ (D) 1

(6) 4,2 × ..... = 4200

(A) 10 (B) 100 (C) 1000 (D) 10000

(7) The set of digits of the number 5533 is .....

(A) {5533} (B) {55,33} (C) {5,3} (D) {53}

(8) If X $\cap$ Y = $\varnothing$ then X,Y are ..... sets

(A) Equal (B) Intersecting (C) Disjoint (D) Contains

(9) A Square its side length 8,4cm , then its area = ... cm^2

(A) 4,2 (B) 16,8 (C) 70,56 (D) 33,6

---

(10) $3\frac{1}{8} \simeq$..... To the nearest hundredth

(A) 3,15 (B) 3,13 (C) 3 (D) 3,1

---

(11) The decimal which 1s included between 0,6 and 0,7 is .....

(A) 0,71 (B) 0,59 (C) 0,61 (D) 0,72

---

(12) 19,45 × 100 .....

(A) 0,1945 (B) 1945 (C) 1,945 (D) 194,5

---

(13) If $X \subset Y$ and $Y \subset X$, then .....

(A) $X = Y$ (B) $X - Y = X$ (C) $Y - X = Y$ (D) $X \cap Y = \varnothing$

---

(14) If $\frac{x}{8} = \frac{15}{24}$ then x = ...

(A) 3 (B) 4 (C) 5 (D) 12

[B] Complete:

(15) If $\frac{X}{7} = 1$ then X = ...

(16) The triangle in which there are two equal sides in length is called .....

(17) 7,81 × 1000 =78,1 × .....

(18) { 2 , 5 , 7} ∩ { 3 , 7 , 1} = ...

(19) The diameter length of the circle whose radius 4cm is.....

(20) 8,43 x 0,9 = ...≈ ..... (to the nearest $\frac{1}{100}$)

(21) The probability of the impossible event is .....

(22) 7 hour + 44 minute + 60 second = ... hours

[c] Solve the following problems

(23) If $U = \{1,2,3,4,5,6\}$, $X = \{2,3,5\}$ and $Y = \{3,4,5\}$ Represent The sets by Venn diagram. Then write each the following by listing method

$X \cap Y$, $X \cup Y$, $X - Y$

.....

.....

(24) Find the product of 58,62 × 35,2 and approximate it to the nearest hundredth

.....

.....

(25) A bag contains 5 white balls , 9 red balls , 6 black balls All the ball are identical and equal in size. If a ball is drawn randomly. What is the probability that the drawn ball is (a) white (b) not red .

.....

.....

(26) Draw the isosceles triangle ABC in which BC = 4 cm and AB = AC = 6cm Then. draw perpendicular segments from Their vertices to their three sides

.....

.....

.....

.....

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Midyear Exam 201 \ 201

Grade : 5th primary
Subject :Math
Model exam (2)

[A] Choose the correct answer from those between brackets:

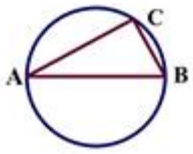
(1) 3 ..... $\{2,3\} \cap \{2,4\}$

(A) $\in$ (B) $\notin$ (C) $\subset$ (D) $\not\subset$ (2)

(2) If $U = \{1,2,3,4\}$ and $A^{\setminus} = \{1,4\}$ then A = ...

(A) {2} (B) {3} (C) {2,3} (D) $\varnothing$

(3) In the opposite figure: $\overline{AB}$ is a .....



(A) Radius (B) Diameter (C) Chord (D) Circle

(4) If $\frac{2}{5} < \frac{x}{10} < \frac{3}{5}$ then x = ...

(A) 4 (B) 5 (C) 6 (D) 10

(5) The length of radius of the circle whose diameter of length 8cm. is ..... cm

(A) 4 (B) 8 (C) 16 (D) 2

(6) $(X^{\setminus})^{\setminus}$ = ...

(A) X (B) Y (C) U (D) $X^{\setminus}$

(7) The probability of the sure event =.....

(A) 0 (B) 1 (C) $\frac{1}{2}$ (D) $\varnothing$

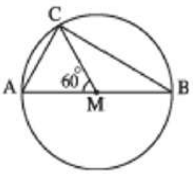
(8) 67 months = ... years

(A) 5 (B) 6 (C) 7 (D) 8

(9) 23,4359 ≈ ..... (to the nearest thousandth)

(A) 23,44 (B) 23,436 (C) 23,4 (D) 23,43

(10) In opposite figure: AC ..... AM



(A) < (B) > (C) = (D) Other wise

(11) The probability of any event may equal.....

(A) $\frac{5}{4}$ (B) $\frac{7}{8}$ (C) $\frac{3}{2}$ (D) 1,2

(12) 254 hours ≈ ..... day

(A) 11 (B) 10 (C) 9 (D) 8

(13) The smallest fraction in the following is.....

(A) $\frac{1}{3}$ (B) $\frac{5}{8}$ (C) $\frac{2}{9}$ (D) $\frac{2}{5}$

(14) If U = {2, 3, 4, 5, 6, 7 } then ∅ ..... U

(A) ∈ (B) ∉ (C) ⊂ (D) ⊄

[B] Complete:

(15) $3\frac{3}{8}$ =..... ≈ ..... (to the nearest hundredth)

(16) If the probability that a pupil passes an exam $\frac{8}{10}$, then the probability that this pupil fails is .....

(17) If 7∈ { 2, 5, x + 3} then x = ...

(18) $\frac{2}{7} < \frac{A}{14} < \frac{3}{7}$, then A = ...

(19) If { a , 5} = { b , 3 } , then a + b = ...

(20) 1,9 , 2,8 , 3,7 , ... , ...

(21) 5 hour + 29 minute + 60 second = ... hours

(22) The diameter of the circle of radius 2cm equals .....cm

[c] Solve the following problems

(23) Rearrange the following fractions descending:

$\frac{1}{2}$, 0,8 , $\frac{1}{4}$, 0,3

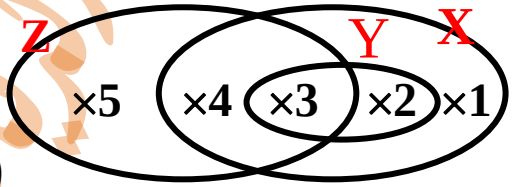
.....

.....

(24) Use the opposite Venn diagram

To write the following sets

$X \cap Y$, $X \cup Y$, $Z - (X \cap Y)$



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(25) The side length of a square is 5,06 meters. Find its area approximating it to the nearest hundredth.

.....

.....

.....

(26) The following table lists the number of 120 volunteers in 3 groups

Group	Distributing	Printing	Design
Number of volunteers	60	30	30

A volunteer has been randomly selected what is the probability to be one of the printing groups?

.....

.....

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Grade : 5th primary
Subject :Math
Model exam (3)

[A] Choose the correct answer from those between brackets:

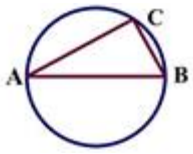
(1) If $M = \{5,2,3\} \cap \{1,5\}$, then M ..... {2}

(A) $\in$ (B) $\notin$ (C) $\subset$ (D) $\not\subset$

(2) 345,6cm $\simeq$ ..... meter

(A) 346 (B) 3,456 (C) 3 (D) 4

(3) In the opposite figure: $\overline{AC}$ is a .....



(A) Radius (B) Diameter (C) Chord (D) Circle

(4) If $\frac{2}{3} < \frac{x}{12} < \frac{5}{6}$ then x = ...

(A) 3 (B) 5 (C) 9 (D) 11

(5) The probability of getting the number zero when tossing Die once is ..... (A) 0 (B) 1 (C) $\frac{1}{2}$ (D) $\frac{1}{6}$

(6) $X' \cap X$ = ...

(A) X (B) $\varnothing$ (C) U (D) X'

(7) $172 \times 0{,}003$ ..... $0{,}172 \times 0{,}3$

(A) < (B) = (C) > (D) Other wise

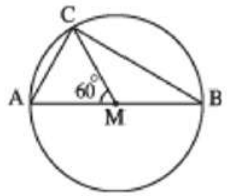
(8) A die is tossed ones. The probability of getting a prime number is = ...

(A) 0,25 (B) 1 (C) $\varnothing$ (D) 0,5

(9) number of altitudes of an obtuse angled triangle is .....

(A) 0 (B) 1 (C) 2 (D) 3

(10) In opposite figure: AC ..... CM



(A) < (B) > (C) = (D) Other wise

(11) The probability of any event may equal .....

(A) $\frac{5}{4}$ (B) $\frac{7}{8}$ (C) $\frac{3}{2}$ (D) 1,2

(12) {2,11} ..... set of odd numbers

(A) $\in$ (B) $\notin$ (C) $\subset$ (D) $\not\subset$

(13) The smallest fraction in the following is.....

(A) $\frac{1}{3}$ (B) $\frac{5}{8}$ (C) $\frac{2}{9}$ (D) $\frac{2}{5}$

(14) $\{2, 3, 5\} \cup \varnothing$ = ...

(A) $\varnothing$ (B) {2, 3, 5} (C) {2} (D) {3,5}

[B] Complete:

(15) $4\frac{1}{3}$ minutes =..... Seconds

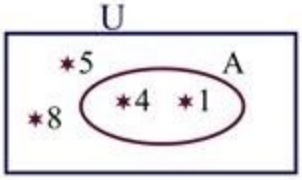
(16) If the probability that a pupil passes an exam $\frac{8}{10}$, then the probability that this pupil fails is .....

(17) If $5 \in \{3, 2, x\}$ then x = ...

(18) 42,5 + 6,148 =..... $\simeq$ ..... To the nearest $\frac{1}{10}$

(19) If $Y \subset X$ then $Y \cap X$ = ...

(20) In the opposite Venn diagram: A' = ...



(21) ..... ÷ 1000 = 8,31

(22) The longest chord of the circles is .....

[c] Solve the following problems

(23) As throwing a fair die once, calculate the probability of:

(a) appearing a number greater than 6

(b) an appearing even prime number

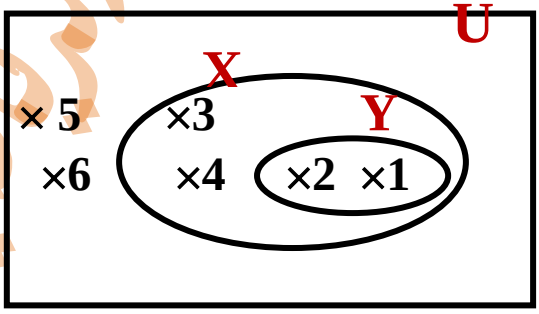
.....

.....

(24) Use the opposite Venn diagram

To write the following sets

$X \cap Y$, $X \cup Y$, $X - Y$



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(25) A truck can hold 125 boxes of oranges at a time .How many times are needed to deliver 4375 boxes by that truck?

.....

.....

(26) Draw the triangle XYZ in which XY = 3 cm, YZ =5cm, XZ =7cm determine the types of the triangle according to the measures of his angles, draw the perpendicular segments from X to YZ and measure his length

.....

.....

.....

.....

Mathematics Model Answer (1) 5th primary

[A] Answer a question Choose the correct answer

(1) If $a \in X$, then $\{a\}$ $\not\subset$ X'

(A) $\in$ (B) $\notin$ (C) $\subset$ **(D) $\not\subset$**

---

(2) If $[\ 2\ ,\ a+2\ ] \not\subset \{2, 4, 6, 8\}$, then a = **8**

(A) 2 (B) 4 (C) 6 **(D) 8**

---

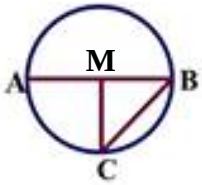
(3) $X \cup X'$ = **U** .

(A) X (B) X' **(C) U** (D) $\varnothing$

---

(4) The chord of the circle M is **BC**

(A) $\overline{MC}$ **(B) $\overline{BC}$** (C) $\overline{AM}$ (D) $\overline{AB}$



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(5) if the probability of success pupil is $\frac{8}{10}$ then the probability of the failure is = $\frac{2}{10} = \frac{1}{5}$

(A) $\frac{1}{8}$ (B) $\frac{3}{10}$ **(C) $\frac{1}{5}$** (D) 1

---

(6) 4,2 × **1000** = 4200

(A) 10 (B) 100 **(C) 1000** (D) 10000

---

(7) The set of digits of the number 5533 is **{5,3}**

(A) {5533} (B) {55,33} **(C) {5,3}** (D) {53}

(8) If $X \cap Y = \varnothing$ then X,Y are **Disjoint** sets

(A) Equal (B) Intersecting **(C) Disjoint** (D) Contains

---

(9) A Square its side length 8,4 cm, then its area = **70.56** cm^2

(A) 4,2 (B) 16,8 **(C) 70,56** (D) 33,6

---

(10) $3\frac{1}{8} \simeq$ **3.13** To the nearest hundredth

(A) 3,15 **(B) 3,13** (C) 3 (D) 3,1

(11) The decimal which 1s included between 0,6 and 0,7 is

0.61 (A) 0,71 (B) 0,59 **(C) 0,61** (D) 0,72

---

(12) 19,45 × 100 = **1945**

(A) 0,1945 **(B) 1945** (C) 1,945 (D) 194,5

---

(13) If $X \subset Y$ and $Y \subset X$, then **$X = Y$**

(A) $X = Y$ (B) $X - Y = X$ (C) $Y - X = Y$ (D) $X \cap Y = \varnothing$

---

(14) If $\frac{x}{8} = \frac{15}{24}$ then x = **15 ÷ 3 =5**

(A) 3 (B) 4 **(C) 5** (D) 12

[B] Answer a question Complete:

(15) If $\frac{X}{7} = 1$ then X = **7**

(16) The triangle in which there are two equal sides in length is called **Isosceles**

(17) $7,81 \times 1000 = 78,1 \times$ **100**

(18) $\{2, 5, 7\} \cap \{3, 7, 1\} =$ **{ 7 }**

(19) The diameter length of the circle whose radius4cm is **8cm**

(20) $8,43 \times 0,9 =$ **7,587 ≈ 7,59** (to the nearest $\frac{1}{100}$)

(21) The probability of the impossible event is **zero**

(22) 7 hour + 44 minute + 60 second = **$7\frac{3}{4}$** hours

---

[c] Answer a question problems

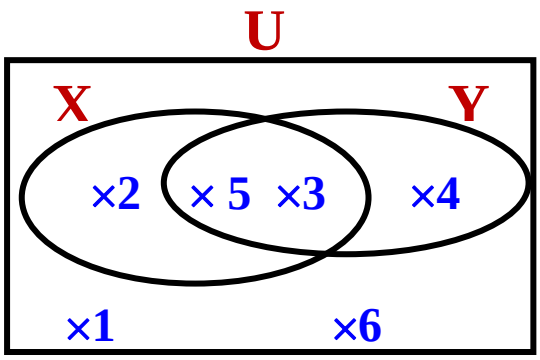
(23) If U = {1,2,3,4,5,6} , X= {2,3,5} and Y= {3,4,5} Represent The sets by Venn diagram. Then write each the following by listing method

$X \cap Y$, $X \cup Y$, $X - Y$

$X \cap Y$ = {3 , 5 }

$X \cup Y$ = { 2,3,4,5 }

$X - Y$ = {2 }



(24) If the price of one mere of cloth is 7.35 pounds,

What is the price of 3,5 meters ?

the price of 3,5 meters

= 7,35 × 3,5 = 25,725 = 26 pounds

$$\begin{array}{r} 735 \\ \times\ 35 \\ \hline 2205 \\ +\ 3675 \\ \hline 25725 \end{array}$$

---

(25) A bag contains 5 white balls , 9 red balls , 6 black balls All the ball are identical and equal in size. If a ball is drawn randomly. What is the probability that the drawn ball is (a) white (b) not red .

The probability that the drawn ball is not red $= \frac{5}{20} = \frac{1}{4}$

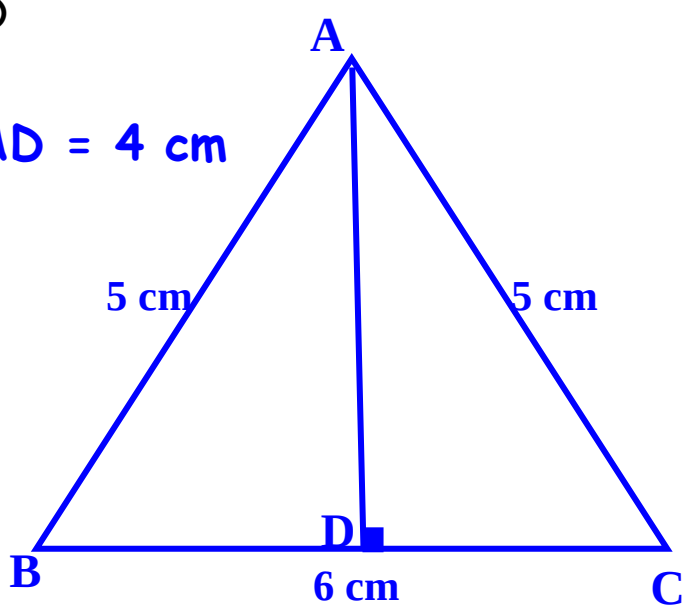
The probability that the drawn ball is white $= \frac{11}{20}$

---

(26) Draw the isosceles triangle **ABC** in which **BC** = 6 cm and **AB** = **AC** = 5 cm Then. draw perpendicular $\overrightarrow{AD}$ from $\overline{BC}$

Measure the length of $\overline{AD}$

Using a measuring ruler AD = 4 cm



Mathematics Model Answer (2) 5th primary

[A] Answer a question Choose the correct answer

(1) 3 $\notin$ $\{2,3\} \cap \{2,4\}$

(A) $\in$ (B) $\notin$ (C) $\subset$ (D) $\not\subset$ (2)

---

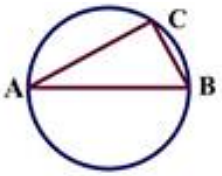
(2) If U = {1,2,3,4} and $A^{\setminus}$ = {1,4} then A = {2,3}

(A) {2} (B) {3} (C) {2,3} (D) $\varnothing$

---

(3) In the opposite figure: $\overline{AB}$ is a Diameter

(A) Radius (B) Diameter (C) Chord (D) Circl



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(4) If $\frac{2}{5} < \frac{x}{10} < \frac{3}{5}$ then x = 5.

(A) 4 (B) 5 (C) 6 (D) 10

---

(5) The length of radius of the circle whose diameter of length 8cm. is 4 cm

(A) 4 (B) 8 (C) 16 (D) 2

---

(6) $(X^{\setminus})^{\setminus}$ = X.

(A) X (B) Y (C) U (D) $X^{\setminus}$

---

(7) The probability of the sure event = 1.

(A) 0 (B) 1 (C) $\frac{1}{2}$ (D) $\varnothing$

(8) 69 months ≈ 6 years

(A) 5 (B) 6 (C) 7 (D) 8

---

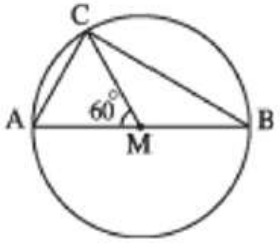
(9) 23,4361 ≈ 23,44 (To the nearest hundred)

(A) 23,44 (B) 23,436 (C) 23,4 (D) 23,43

---

(10) In opposite figure: AC = AM

(A) < (B) > (C) = (D) Other wis



---

(11) The probability of any event may equal $\frac{7}{8}$

(A) $\frac{5}{4}$ (B) $\frac{7}{8}$ (C) $\frac{3}{2}$ (D) 1,2

---

(12) 254 hours = 10,583 ≈ 11 day

(A) 11 (B) 10 (C) 9 (D) 8

---

(13) The smallest fraction in the following is $\frac{2}{9}$

(A) $\frac{1}{3}$ (B) $\frac{5}{8}$ (C) $\frac{2}{9}$ (D) $\frac{2}{5}$

---

(14) If U = {2, 3, 4, 5, 6, 7 } then ∅ ⊂ U

(A) ∈ (B) ∉ (C) ⊂ (D) ⊄

[B] Answer a question Complete:

(15) $3\frac{3}{8}$ = 3.375 ≈ 3.38 (to the nearest hundredth)

(16) If the probability that a pupil passes an exam $\frac{8}{10}$, then the probability that this pupil fails is $\frac{2}{10} = \frac{1}{5}$

(17) If $7 \in \{2, 5, x+3\}$ then x x+3 = 7 ⇒ x = 4

(18) $\frac{4}{7} < \frac{A}{14} < \frac{5}{7}$, then A = $\frac{9}{14}$

(19) If { a , 5} = { b , 3 } , then a + b = 3 + 5 = 8

(20) 1,9 , 2,8 , 3,7 , 4.6 , 5.5

(21) 5 hour + 29 minute + 60 second = $5\frac{1}{2}$ hours

(22) The diameter of the circle of radius 2cm equals 4 cm

---

[c] Answer a question problems

(23) Rearrange the following fractions descending:

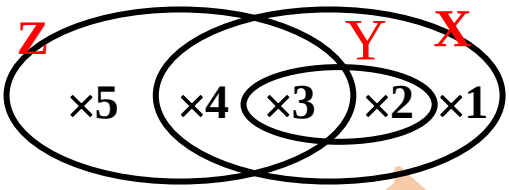
$\frac{1}{2}$, 0,8 , $\frac{1}{4}$, 0,3

$\frac{1}{2}$ = 0,5 and $\frac{1}{4}$ = 0,25

The Rearrange descending 0,8 & 0,5 & 0,4 & 0,25

The Rearrange descending 0,8 & $\frac{1}{2}$ & 0,4 & $\frac{1}{4}$

(24) Use the opposite Venn diagram



To write the following sets

$X \cap Y$, $X \cup Y$, $Z - (X \cap Y)$

$X \cap Y = \{ 3 , 2 \}$

$X \cup Y = \{ 1 , 2 , 3 , 4 \}$

$Z - (X \cap Y) = \{ 4 , 5 \}$

---

(25) The side length of a square is 5,26 meters. Find its area approximating it to the nearest meter.

The area = 5,26 × 5,26 = 27,6676 ≈ 28 meter

---

(26) The following table lists the number of 120 volunteers in 3 groups

Group	Distributing	Printing	Design
Number of volunteers	60	30	30

A volunteer has been randomly selected what is the probability to be one of the printing groups?

the probability to be one of the printing = $\frac{30}{120} = \frac{1}{4}$

Mathematics Model Answer (3) 5th primary

[A] Answer a question Choose the correct answer

(1) If $M = \{5,2,3\} \cap \{1,5\}$, then M $\not\subset$ $\{2\}$

(A) $\in$ (B) $\notin$ (C) $\subset$ **(D) $\not\subset$**

---

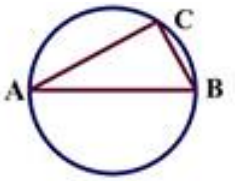
(2) 345,6 cm $\simeq$ **3** meter

(A) 346 (B) 34,56 **(C) 3** (D) 4

---

(3) In the opposite figure: $\overline{AC}$ is a **Chord**

(A) Radius (B) Diameter **(C) Chord** (D) Circle



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(4) If $\frac{2}{3} < \frac{x}{12} < \frac{5}{6} \Rightarrow \frac{8}{12} < \frac{x}{12} < \frac{10}{12}$ then x = **9**

(A) 3 (B) 5 **(C) 9** (D) 11

---

(5) The probability of getting prime number is **$\frac{1}{2}$**

(A) 0 (B) 1 **(C) $\frac{1}{2}$** (D) $\frac{1}{6}$

---

(6) $X' \cap X =$ **$\varnothing$**

(A) X **(B) $\varnothing$** (C) U (D) X'

---

(7) 172 × 0,003 **>** 0,172 × 0,3

(A) < (B) = **(C) >** (D) Other wise

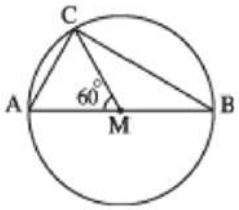
(8) The length of radius of the circle whose diameter of length 16 cm. is 8 cm

(A) 4 **(B) 8** (C) 16 (D) 2

(9) number of altitudes of an obtuse angled triangle is 3

(A) 0 (B) 1 (C) 2 **(D) 3**

(10) In opposite figure: CB < AB



(A) < (B) > (C) = (D) Other wise

(11) The probability of any event may equal $\frac{1}{11}$

(A) $\frac{4}{3}$ **(B) $\frac{1}{11}$** (C) $\frac{7}{5}$ (D) 1,1

(12) {2,11} ⊄ set of odd numbers

(A) ∈ (B) ∉ (C) ⊂ **(D) ⊄**

(13) the biggest fraction in the following is $\frac{5}{8}$

(A) $\frac{1}{3}$ **(B) $\frac{5}{8}$** (C) $\frac{2}{9}$ (D) $\frac{2}{5}$

(14) {2, 3, 5} ∪ ∅ = {2, 3, 5}

(A) ∅ **(B) {2, 3, 5}** (C) {2} (D) {3,5}

[B] Answer a question Complete:

(15) $4\frac{1}{3}$ minutes = 4 × 60 + 20 = 260 Seconds

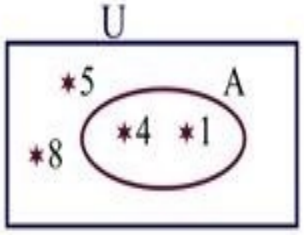
(16) If the probability that a pupil passes an exam $\frac{13}{15}$, then the probability that this pupil fails is $\frac{2}{15}$

(17) If $5 \in \{3, 2, x\}$ then x = 5

(18) 42,5 + 6,148 = 48,648 ≃ 49 To the nearest $\frac{1}{10}$

(19) If $Y \subset X$ then $Y \cap X$ = Y

(20) In the opposite Venn diagram: $A^{\setminus}$ = {5, 8}



(21) 8310 ÷ 1000 = 8,31

(22) The longest chord of the circles is Diameter

---

[c] Answer a question problems

(23) As throwing a fair die once, calculate the probability of:

(a) appearing a number greater than 6

(b) an appearing even prime number

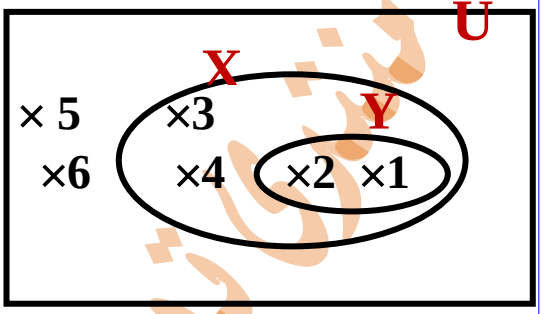
(a) appearing a number greater than 6 = 0

(b) an appearing even prime number = $\frac{1}{6}$

(24) Use the opposite Venn diagram

To write the following sets

$X \cap Y$, $X \cup Y$, $X - Y$



$X \cap Y = \{ 1 , 2 \}$

$X \cup Y = \{ 1 , 2 , 3 , 4 \}$

$X - Y = \{ 3 , 4 \}$

---

(25) A truck can hold 125 boxes of oranges at a time .
How many times are needed to deliver 4375 boxes by that truck?

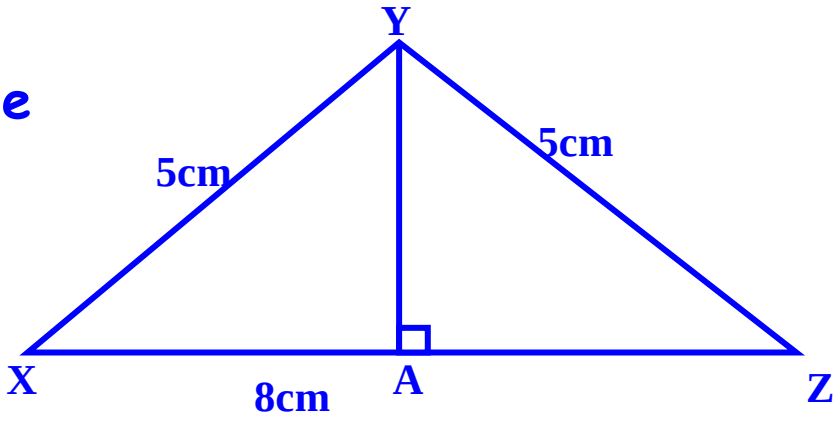
Number of times needed = 4375 ÷ 125 = 35

---

(26) Draw the triangle XYZ in which XY = 3 cm, YZ =5cm, XZ =7cm determine the types of the triangle according to the measures of his angles, draw the perpendicular $\overline{YA}$ segments from Y to XZ and measure his length $\overline{YA}$

The obtuse triangle

YA = 3 cm



..... Governorate
..... Educational Zone
Midyear Exam 201 --201

Grade : 5 th primary
Subject :Math
Model exam (1)

[A] Choose the correct answer from those between brackets:

(1) { 3 } ..... { 1 , 3 , 5 }

(A) ∈ (B) ∉ (C) ⊂ (D) ⊄

---

(2) 135.42 ÷ 100 = ...

(A) 13542 (B) 13,542 (C) 1,3542 (D) 135,42

---

(3) { 1 , 2 } ∪ { 2, 3 } = ...

(A) {2} (B) { 1 , 3 } (C) { 1 , 2 , 3} (D) ∅

---

(4) $1\frac{1}{2} \div \frac{1}{4}$ = ...

(A) 2 (B) 6 (C) 12 (D) $\frac{3}{8}$

---

(5) if the probability of success pupils is $\frac{8}{10}$ then the probability of the failure is .....

(A) $\frac{1}{8}$ (B) $\frac{3}{10}$ (C) $\frac{1}{5}$ (D) 1

---

(6) 43 days (to the nearest week) = ...

(A) 4 (B) 6 (C) 5 (D) 7

---

(7) The number of subsets of the set {4 , 5} equals .....

(A) 2 (B) 3 (C) 4 (D) 5

---

(8) The quotient of dividing 5,45 ÷ 0,5 = ...

(A) 1,9 (B) 1,09 (C) 10,9 (D) 109

---

(9) If U = { 1 , 3 , 5 , 7 , 9} then {6 , 7} ..... U

(A) $\in$ (B) $\notin$ (C) $\subset$ (D) $\not\subset$

---

(10) The number 276,532 to the nearest hundredth =.....

(A) 277 (B) 276,53 (C) 276,54 (D) 276,5

---

(11) The tendon passing through the center of the circuit is called the .....

(A) diameter (B) radius (C) tangent (D) side

---

(12) 327 ÷ 24 = 3,27 ÷ .....

(A) 2,4 (B) 0,24 (C) 24 (D) 2004

---

(13) If {2 , a + 2} $\not\subset$ {2 , 4 , 6 , 8} then a = ...

(A) 2 (B) 4 (C) 6 (D) 8

---

(14) The number of days in 254 hours equals approximately...

(A) 11 (B) 10 (C) 12 (D) 9

[B] Complete:

(15) If $X = \{2 < 4 < 5\} \cap (5, 3, 7\}$ then 1 X

(16) The triangle in which there are two equal sides in length is called .....

(17) 3,26 m = ... km

(18) If X ..... Y then $X \cap Y = X$

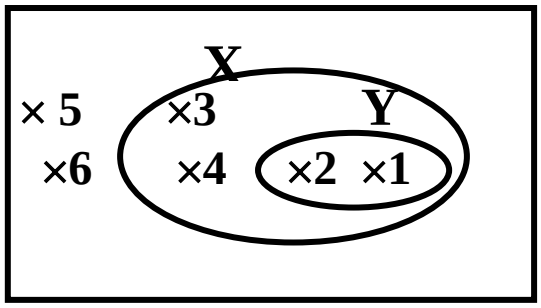
(19) A circle is of diameter length 12 cm. then its radius length = ... cm.

(20) 8,43 x 0,9 = ...≈ ..... (to the nearest $\frac{1}{100}$)

(21) The probability of the sure events is .....

(22) 7 hour + 59 minute + 60 second = ... hours

[c] Solve the following problems



(23) Use the opposite Venn diagram
To write the following sets
$X \cap Y$, $X \cup Y$, $X - Y$

.....
.....
.....

---

(24) If the price of one mere of cloth is 7.35 pounds,
What is the price of 3,5 meters ?

.....
.....

---

(25) A bag contains 5 white balls , 9 red balls , 6 black balls
All the ball are identical and equal in size. If a ball is drawn randomly. What is the probability that the drawn ball is (a) white (b) not red .

.....
.....

---

(26) Draw the isosceles triangle ABC which is right angled at B where AB = 5cm . from B draw the line segment which Is perpendicular to $\overline{AC}$ (say $\overline{BD}$) and measure its length.

.....
.....
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.....
.....

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Midyear Exam 201 --201

Grade : 4 th primary
Subject :Math
Model exam (2)

[A] Choose the correct answer from those between brackets:

(1) 22,22 ÷ 2

(A) 11,11 (B) 10,01 (C) 22,22 (D) 1,111

---

(2) {2,3,6,12} ∩ the set of factors of the number 6 is .....

(A) {2,3,6,12} (B) {3,6} (C) {4,6} (D) {2,3,6}

---

(3) 8,08 ÷ 8

(A) 101 (B) 1 (C) 1,01 (D) 10,1

---

(4) { 34 } ..... { 4 , 3 }

(A) ∈ (B) ∉ (C) ⊂ (D) ⊄

---

(5) If $X \subset Y$ then $X \cap Y$ = ...

(A) X (B) Y (C) ∅ (D) U

---

(6) The longest chord in the circle is called a .....

(A) chord (B) radius (C) tangent (D) diameter

---

(7) The number of months in half a year = ...

(A) 6 (B) 3 (C) 5 (D) 9

(8) If {7 , 10} ⊂ {10 , x + 4} then x = ...

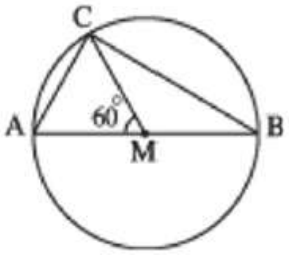
(A) 3 (B) 4 (C) 5 (D) 6

(9) $5\frac{1}{8}$ ≈ ..... (to the nearest hundredth)

(A) 5,125 (B) 5,14 (C) 5,13 (D) 5,1

(10) In opposite figure:

AC ..... AM



(A) < (B) > (C) =

(11) $\frac{1}{25} \times 50 \times 0,25$ = ...

(A) 4 (B) $\frac{1}{4}$ (C) $\frac{1}{2}$ (D) 2

(12) 254 hours ≈ ..... day

(A) 8 (B) 9 (C) 10 (D) 12

(13) The smallest fraction in the following is.....

(A) $\frac{1}{3}$ (B) $\frac{5}{8}$ (C) $\frac{2}{9}$ (D) $\frac{2}{5}$

(14) If U = {2 , 3 , 4 , 5 , 6 , 7} then ∅ ..... U

(A) ∈ (B) ∉ (C) ⊂ (D) ⊄

[B] Complete:

(15) $3\frac{18}{500}$ = ... ≈ ..... (to the nearest $\frac{1}{100}$)

(16) The triangle which the measures of its angles are 90° , 50° and 40° is called .....

(17) If $X \subset Y$ then $X - Y$ = ...

(18) The probability that the elephant flies is .....

(19) 657 Kilometers = ... meters

(20) 3 ..... the set of factors of the number 18

(21) 5 hour + 29 minute + 60 second = ... hours

(22) The diameter of the circle of radius 2cm equals .....cm

[c] Solve the following problems

(23) As throwing a fair die once, calculate the probability of:

(a) appearing a number greater than 6

(b) an appearing even prime number

.....

.....

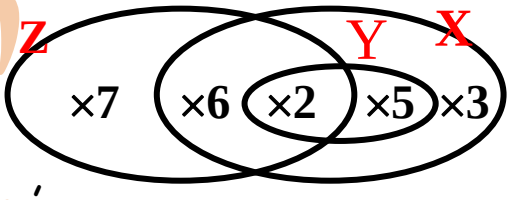
.....

---

(24) Use the opposite Venn diagram

To write the following sets

$X \cap Y$, $X \cup Y$, $Z - (X \cap Y)$,



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---

(25) The length of a piece of cloth is 9,25 m , 12 towels are made of it, the length of each towel is 0,75 m.

How many meters are remainder ?

.....

.....

---

(26) Draw the triangle ABC in which AB = 3 cm. , BC = 4 cm. AC = 5cm . then draw the circle M whose diameter is $\overline{AC}$

.....

.....

.....

.....

.....

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Midyear Exam 201 --201

Grade : 5 th primary
Subject :Math
Model Answer (1)

[A] Choose the correct answer from those between brackets:

(1) $\{3\} \subset \{1, 3, 5\}$

(A) $\in$ (B) $\notin$ **(C) $\subset$** (D) $\not\subset$

---

(2) $135.42 \div 100 = 1.3542$

(A) 13542 (B) 13,542 **(C) 1,3542** (D) 135,42

---

(3) $\{1, 2\} \cup \{2, 3\} = \{1, 2, 3\}$

(A) $\{2\}$ (B) $\{1, 3\}$ **(C) $\{1, 2, 3\}$** (D) $\varnothing$

---

(4) $1\frac{1}{2} \div \frac{1}{4} = 6$

(A) 2 **(B) 6** (C) 12 (D) $\frac{3}{8}$

---

(5) if the probability of success pupils is $\frac{8}{10}$ then the probability of the failure is $\frac{1}{5}$

(A) $\frac{1}{8}$ (B) $\frac{3}{10}$ **(C) $\frac{1}{5}$** (D) 1

---

(6) 43 days (to the nearest week) = 6

(A) 4 **(B) 6** (C) 5 (D) 7

---

(7) The number of subsets of the set {4 , 5} equals 4

(A) 2 (B) 3 (C) 4 (D) 5

---

(8) The quotient of dividing 5,45 ÷ 0,5 = 10,9

(A) 1,9 (B) 1,09 (C) 10,9 (D) 109

---

(9) If U = { 1 , 3 , 5 , 7 , 9} then {6 , 7} ⊂ U

(A) ∈ (B) ∉ (C) ⊂ (D) ⊄

---

(10) The number 276,532 to the nearest hundredth =276,53

(A) 277 (B) 276,53 (C) 276,54 (D) 276,5

---

(11) The tendon passing through the center of the circuit is called the circle diameter

(A) diameter (B) radius (C) tangent (D) side

---

(12) 327 ÷ 24 = 3,27 ÷ 0,24

(A) 2,4 (B) 0,24 (C) 24 (D) 2004

---

(13) If {2 , a + 2} ⊄ {2 , 4 , 6 , 8} then a = 8

(A) 2 (B) 4 (C) 6 (D) 8

---

(14) The number of days in 254 hours equals approximately 11

(A) 11 (B) 10 (C) 12 (D) 9

[B] Complete:

(15) If $X = \{2, 4, 5\} \cap \{5, 3, 7\}$ then $1 \notin X$

(16) The triangle in which there are two equal sides in length is called Isosceles

(17) 3,26 m = 0,00326 km

(18) If $X \subset Y$ then $X \cap Y = X$

(19) A circle is of diameter length 12 cm. then its radius length = 6 cm.

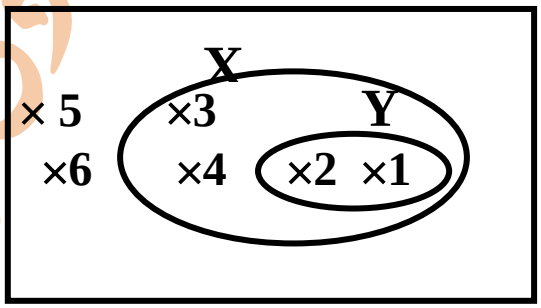
(20) 8,43 × 0,9 = 7,587 ≈ 7,59 (to the nearest $\frac{1}{100}$)

(21) The probability of the sure events is = 1

(22) 7 hour + 59 minute + 60 second = 8 hours

[c] Solve the following problems

(23) Use the opposite Venn diagram
To write the following sets
$X \cap Y$, $X \cup Y$, $X - Y$



$X \cap Y = \{1, 2\}$

, $X \cup Y = \{1, 2, 3, 4\}$

, $X - Y = \{3, 4\}$

(24) If the price of one mere of cloth is 7.35 pounds,
What is the price of 3,5 meters ?

Price of cloth = 7,35 × 3,5 = 25,725 pounds

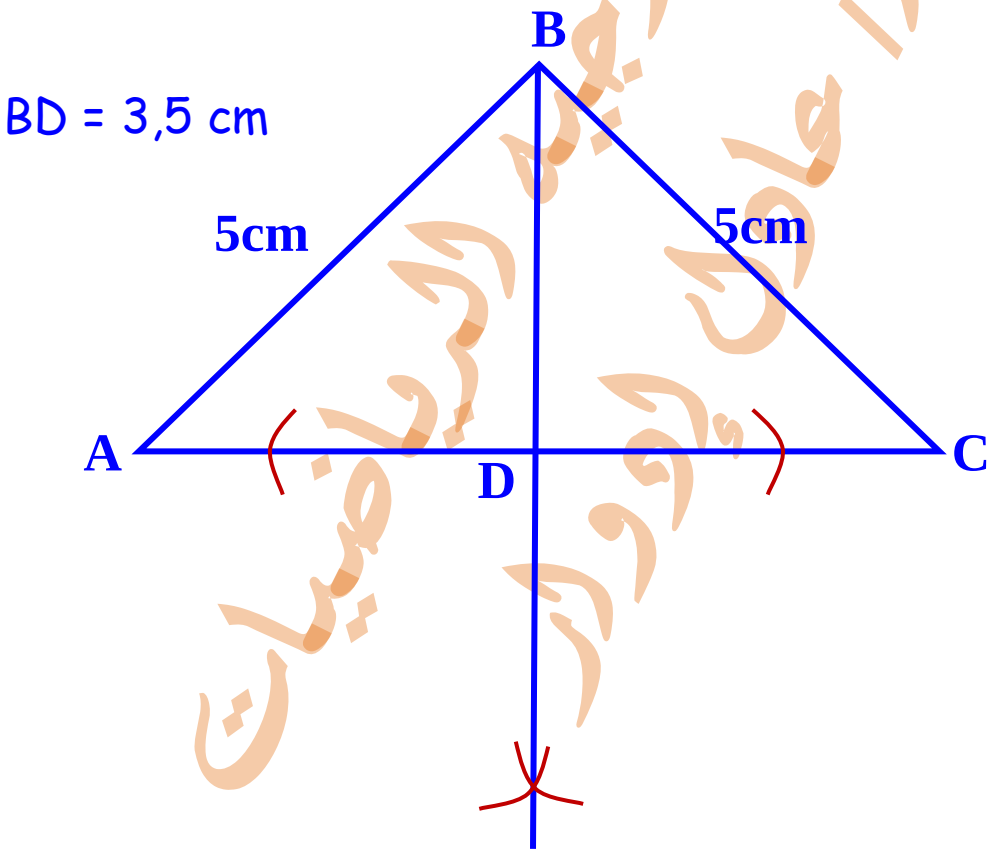
(25) A bag contains 5 white balls , 9 red balls , 6 black balls All the ball are identical and equal in size. If a ball is drawn randomly. What is the probability that the drawn ball is

(a) the probability that the drawn ball is white $= \frac{5}{20} = \frac{1}{4}$

(b) the probability that the drawn ball is not red $= \frac{11}{20}$

---

(26) Draw the isosceles triangle ABC which is right angled at B where AB =CB = 5cm . from B draw the line segment which Is perpendicular to $\overline{AC}$ (say $\overline{BD}$) and measure its length.



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..... Educational Zone
Midyear Exam 201 --201

Grade : 4 th primary
Subject :Math
Model Answer (2)

[A] Choose the correct answer from those between brackets:

(1) 22,22 ÷ 2 = 11,11

(A) 11,11 (B) 10,01 (C) 22,22 (D) 1,111

---

(2) {2,3,6,12} ∩ the set of factors of the number 6 is {2,3,6,12}

(A) {2,3,6,12} (B) {3,6} (C) {4,6} (D) {2,3,6}

---

(3) 8,08 ÷ 8 = 1,01

(A) 101 (B) 1 (C) 1,01 (D) 10,1

---

(4) { 34 } ∉ { 4 , 3 }

(A) ∈ (B) ∉ (C) ⊂ (D) ⊄

---

(5) If $X \subset Y$ then $X \cap Y = X$

(A) X (B) Y (C) ∅ (D) U

---

(6) The longest chord in the circle is called a diameter

(A) chord (B) radius (C) tangent (D) diameter

---

(7) The number of months in half a year =6

(A) 6 (B) 3 (C) 5 (D) 9

(8) If {7 , 10} ⊂ {10 , x + 4} then x = 3

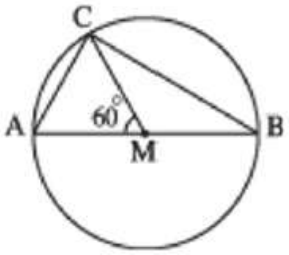
(A) 3 (B) 4 (C) 5 (D) 6

(9) $5\frac{1}{8}$ = 5,125 ≈ 5,13 (to the nearest hundredth)

(A) 5,125 (B) 5,14 (C) 5,13 (D) 5,1

(10) In opposite figure:

AC = AM



(A) < (B) > (C) =

(11) $\frac{1}{25} \times 50 \times 0,25 = \frac{1}{2}$

(A) 4 (B) $\frac{1}{4}$ (C) $\frac{1}{2}$ (D) 2

(12) 254 hours = 8,16666 ≈ 8 day

(A) 8 (B) 9 (C) 10 (D) 12

(13) The smallest fraction in the following is $\frac{2}{9}$

(A) $\frac{1}{3}$ (B) $\frac{5}{8}$ (C) $\frac{2}{9}$ (D) $\frac{2}{5}$

(14) If U = {2 , 3 , 4 , 5 , 6 , 7} then ∅ ⊂ U

(A) ∈ (B) ∉ (C) ⊂ (D) ⊄

[B] Complete:

(15) $3\frac{18}{500}$ = 3,036 ≈ 3,04 (to the nearest $\frac{1}{100}$)

(16) The triangle which the measures of its angles are

90° , 50° and 40° is called Right-angled triangle

(17) If $X \subset Y$ then $X - Y = \varnothing$

(18) The probability that the elephant flies is zero

(19) 657 Kilometers = 657000 meters

(20) 3 ∈ the set of factors of the number 18

(21) 5 hour + 29 minute + 60 second = 5,5 hours

(22) The diameter of the circle of radius 2cm equals 4 cm

[c] Solve the following problems

(23) As throwing a fair die once, calculate the probability of:

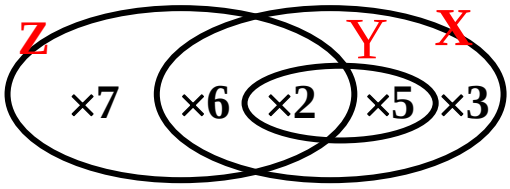
(a) appearing a number greater than 6 = Zero

(b) an appearing even prime number = $\frac{3}{6} = \frac{1}{2}$

(24) Use the opposite Venn diagram

To write the following sets

$X \cap Y$, $X \cup Y$, $Z - (X \cap Y)$



$X \cap Y = \{2 , 5\}$

$X \cup Y = \{ 2 ,3 ,5 ,6 \}$

$Z - (X \cap Y) = \{ 6 , 7 \}$

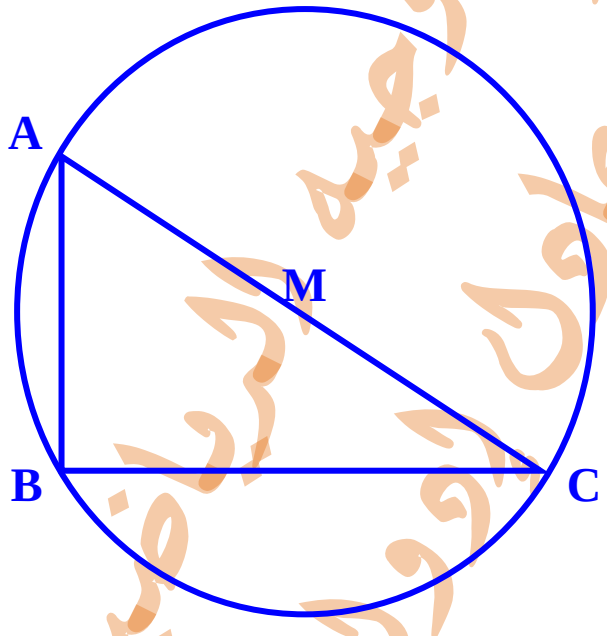
(25) The length of a piece of cloth is 9,25 m , 12 towels are made of it, the length of each towel is 0,75 m.
How many meters are remainder ?

Length of towels = 12 × 0,75 = 9 m

Remaining cloth = 9,25 – 9 = 0,25 m

---

(26) Draw the triangle ABC in which AB = 3 cm. , BC = 4 cm. AC = 5cm . then draw the circle M whose diameter is $\overline{AC}$



..... Governorate
..... Educational Zone
Midyear Exam 201 --201

Grade : 5 th primary
Subject :Math
Model exam (1)

[A] Choose the correct answer from those between brackets:

(1) { 3 } ..... { 1 , 3 , 5 }

(A) ∈ (B) ∉ (C) ⊂ (D) ⊄

---

(2) 135.42 ÷ 100 = ...

(A) 13542 (B) 13,542 (C) 1,3542 (D) 135,42

---

(3) { 1 , 2 } ∪ { 2, 3 } = ...

(A) {2} (B) { 1 , 3 } (C) { 1 , 2 , 3} (D) ∅

---

(4) $1\frac{1}{2} \div \frac{1}{4}$ = ...

(A) 2 (B) 6 (C) 12 (D) $\frac{3}{8}$

---

(5) if the probability of success pupils is $\frac{8}{10}$ then the probability of the failure is .....

(A) $\frac{1}{8}$ (B) $\frac{3}{10}$ (C) $\frac{1}{5}$ (D) 1

---

(6) 43 days (to the nearest week) = ...

(A) 4 (B) 6 (C) 5 (D) 7

---

(7) The number of subsets of the set {4 , 5} equals .....

(A) 2 (B) 3 (C) 4 (D) 5

---

(8) The quotient of dividing 5,45 ÷ 0,5 = ...

(A) 1,9 (B) 1,09 (C) 10,9 (D) 109

---

(9) If U = { 1 , 3 , 5 , 7 , 9} then {6 , 7} ..... U

(A) $\in$ (B) $\notin$ (C) $\subset$ (D) $\not\subset$

---

(10) The number 276,532 to the nearest hundredth =.....

(A) 277 (B) 276,53 (C) 276,54 (D) 276,5

---

(11) The chord which passes through the center of the circle is called a .....

(A) diameter (B) radius (C) tangent (D) side

---

(12) 327 ÷ 24 = 3,27 ÷ .....

(A) 2,4 (B) 0,24 (C) 24 (D) 2004

---

(13) If {2 , a + 2} $\not\subset$ {2 , 4 , 6 , 8} then a = ...

(A) 2 (B) 4 (C) 6 (D) 8

---

(14) The number of days in 254 hours equals approximately...

(A) 11 (B) 10 (C) 12 (D) 9

[B] Complete:

(15) If $X = \{ 2 < 4 < 5 \} \cap (5 , 3 , 7 \}$ then 1 X

(16) The triangle in which there are two equal sides in length is called .....

(17) 3,26 m = ... km

(18) If X ..... Y then $X \cap Y = X$

(19) A circle is of diameter length 12 cm. then its radius length = ... cm.

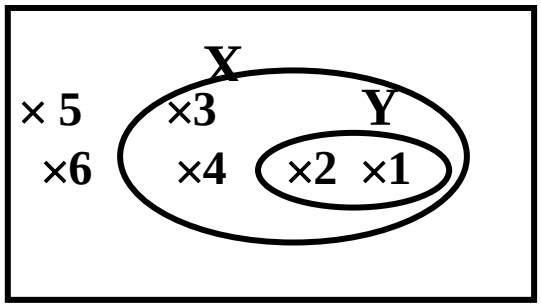
(20) 8,43 x 0,9 = ...≈ ..... (to the nearest $\frac{1}{100}$)

(21) The probability of the sure events is .....

(22) 7 hour + 44 minute + 60 second = ... hours

[c] Solve the following problems

(23) Use the opposite Venn diagram
To write the following sets
$X \cap Y$, $X \cup Y$, $X - Y$



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---

(24) If the price of one mere of cloth is 7.35 pounds,
What is the price of 3,5 meters ?

.....
.....

---

(25) A bag contains 5 white balls , 9 red balls , 6 black balls
All the ball are identical and equal in size. If a ball is drawn randomly. What is the probability that the drawn ball is (a) white (b) not red .

.....
.....

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(26) Draw the isosceles triangle ABC which is right angled at B where AB = 5cm . from B draw the line segment which Is perpendicular to $\overline{AC}$ (say $\overline{BD}$) and measure its length.

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.....
.....

.....Governorate
..... Educational Zone
Midyear Exam 201 --201

Grade : 4 th primary
Subject :Math
Model exam (2)

[A] Choose the correct answer from those between brackets:

(1) 22,22 ÷ 2

(A) 11,11 (B) 10,01 (C) 22,22 (D) 1,111

---

(2) {2,3,6,12} ∩ the set of factors of the number 6 is .....

(A) {2,3,6,12} (B) {3,6} (C) {4,6} (D) {2,3,6}

---

(3) 8,25 ÷ 8

(A) 101 (B) 1 (C) 1,01 (D) 10,1

---

(4) { 34 } ..... { 4 , 3 }

(A) ∈ (B) ∉ (C) ⊂ (D) ⊄

---

(5) If $X \subset Y$ then $X \cap Y$ = ...

(A) X (B) Y (C) ∅ (D) U

---

(6) The longest chord in the circle is called a .....

(A) chord (B) radius (C) tangent (D) diameter

---

(7) The number of months in half a year = ...

(A) 6 (B) 3 (C) 5 (D) 9

(8) If {7 , 10} ⊂ {10 , x + 4} then x = ...

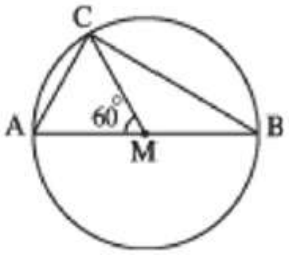
(A) 3 (B) 4 (C) 5 (D) 6

(9) $5\frac{1}{8}$ ≈ ..... (to the nearest hundredth)

(A) 5,125 (B) 5,14 (C) 5,13 (D) 5,1

(10) In opposite figure:

AC ..... AM



(A) < (B) > (C) =

(11) $\frac{1}{25} \times 50 \times 0,25$ = ...

(A) 4 (B) $\frac{1}{4}$ (C) $\frac{1}{2}$ (D) 2

(12) 254 hours ≈ .....

(A) 11 (B) 10 (C) 12 (D) 9

(13) The smallest fraction in the following is.....

(A) $\frac{1}{3}$ (B) $\frac{5}{8}$ (C) $\frac{2}{9}$ (D) $\frac{2}{5}$

(14) If U = {2 , 3 , 4 , 5 , 6 , 7} then ∅ ..... U

(A) ∈ (B) ∉ (C) ⊂ (D) ⊄

[B] Complete:

(15) $3\frac{18}{500}$ =..... ≈ ..... (to the nearest $\frac{1}{100}$)

(16) The triangle which the measures of its angles are 90° , 50° and 40° is called .....

(17) If $X \subset Y$ then $X - Y$ = ...

(18) The probability that the elephant flies is .....

(19) 657 Kilometers = ... meters

(20) 3 ..... the set of factors of the number 18

(21) 5 hour + 29 minute + 60 second = ... hours

(22) The diameter of the circle of radius 2cm equals .....cm

[c] Solve the following problems

(23) As throwing a fair die once, calculate the probability of:

(a) appearing a number greater than 6

(b) an appearing even prime number

.....

.....

.....

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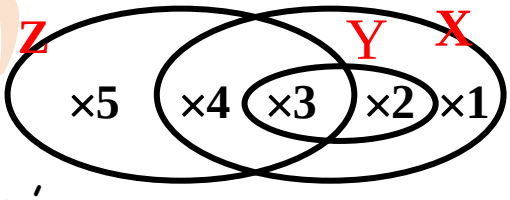
(24) Use the opposite Venn diagram

To write the following sets

$X \cap Y$, $X \cup Y$, $Z - (X \cap Y)$,



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(25) The length of a piece of cloth is 9,25 m , 12 towels are made of it, the length of each towel is 0,75 m.

How many meters are remainder ?

.....

.....

---

(26) Draw the triangle ABC in which AB = 3 cm. , BC = 4 cm. AC = 5cm . then draw the circle M whose diameter is $\overline{AC}$

.....

.....

.....

.....

.....

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (01) First term Jan 2019

[1] Choose the correct answer:

(1) $\frac{7}{80} \simeq$ ..... To nearest thousandths

a) 0.875 **b)** 0.088 **c)** 0.087 **d)** 0.87

(2) The chord which passes through the center of circle is .....

a) Diameter **b)** Radius **c)** Side **d)** Center

(3) 3 ..... { 13 , 303 }

a) $\in$ **b)** $\notin$ **c)** $\subset$ **d)** $\not\subset$

(4) 3.002 Km = ... m

a) 0.30020 **b)** 0.0023 **c)** 3200 **d)** 3002

(5) Number of subsets of { 5 } is

a) 5 **b)** 1 **c)** 2 **d)** 4

(6) 3.2×100 ..... $3.2 \div 100$

a) < **b)** = **c)** > **d)** $\leq$

(7) $\frac{3}{7} = \frac{a}{21}$, then a = ...

a) 3 **b)** 9 **c)** 6 **d)** 7

(8) If $X \subset Y$, then $X \cup Y$ = ...

a) X **b)** Y **c)** U **d)** $\varnothing$

(9) $\frac{2}{3} \div 1\frac{1}{2} =$

a) 1 **b)** 3 **c)** $\frac{9}{4}$ **d)** $\frac{4}{9}$

(10) If { 2 , 4 , 7 } = { 3 , Y , 4 } , then Y = ...

a) 4 **b)** 3 **c)** Zero **d)** 7

(11) 62160 ÷ 296 = ...

a) 21 **b)** 201 **c)** 210 **d)** 120

(12) Area of square whose side length 3.7 cm = ... Cm^2

a) 14.8 **b)** 7.4 **c)** 13.69 **d)** 21.7

(13) Number of altitudes of isosceles triangle = ...

a) 1 **b)** 2 **c)** 3 **d)** 4

(14) { 1 , 2 , 3 } − { 2 , 3 } = ...

a) { 1 , 2 , 3 } **b)** $\varnothing$ **c)** { 1 , 2 } **d)** { 1 }

Good Luck

[2] Complete each of the following with correct answers:

15) If X = { 2 , 3 } , Y = { 2 , 5 } , then X ∪ Y = ...

16) To draw a circle its diameter 6.4 cm, we open the compasses on ..... cm

17) 2.365 × 100 = ...

18) If X ⊂ Y , then X – Y = ...

19) In an experiment of rolling a die once, the probability of getting a number more than 9 is .....

20) 5460 Kg = ... ton

21) 4.6 × 0.03 = ...

22) The triangle whose measures of its angles 30° , 80° , 70° is called ..... triangle according to its angles

[3] Answer the following questions:

23) A box contains 15 cards numbered from 1 to 15, if card is drawn randomly, find the probability that the chosen card has :

① Number divisible by 7

② Even prime number

★★ End of the questions ★★

Good Luck

هشام الشربيني الدرجة النهائية full mark Mr. Salman Zaki

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (02) First term Jan 2019

[1] Choose the correct answer:

(1) $4.3407 \simeq 2.341$ to nearest .....

a) Tenths **b)** Hundredths **c)** Thousandths **d)** Units

(2) 4.63×1000 = ...

a) 463 **b)** 4630 **c)** 46.3 **d)** 0.00463

(3) { 7 } ..... { 1 , 4 , 7 }

a) $\in$ **b)** $\notin$ **c)** $\subset$ **d)** $\not\subset$

(4) 6 ..... { 44 , 55 , 66 }

a) $\in$ **b)** $\notin$ **c)** $\subset$ **d)** $\not\subset$

(5) The line segment join between two points on the circle is .....

a) Chord **b)** Radius **c)** Diameter **d)** Center

(6) $\frac{5}{8}$ 0.63

a) > **b)** < **c)** = **d)** Twice

(7) $6 \div \frac{1}{2}$ = ...

a) 12 **b)** 3 **c)** $\frac{2}{6}$ **d)** $\frac{6}{2}$

(8) $\frac{3}{5} \times 1\frac{2}{3}$ = ...

a) 1 **b)** $1\frac{6}{15}$ **c)** $\frac{23}{35}$ **d)** $\frac{2}{5}$

(9) $1244 \div 311$ = ...

a) 404 **b)** 44 **c)** 4 **d)** 400

(10) $3.96 \div 1.2$ = ...

a) 33 **b)** 3.3 **c)** 330 **d)** 0.33

(11) $\{ 6 , 4 , 1 \} \cap \{ 46 , 14 , 6 \}$ =

a) { 1 } **b)** { 6 } **c)** $\varnothing$ **d)** { 4 }

(12) $\{ 3 , 4 , 7 \} - \{ 3 , 7 \}$ = ...

a) { 3 , 7 } **b)** $\varnothing$ **c)** { 4 } **d)** { 4 , 7 }

(13) If { 3 , 4 , 5 , 6 } = { 6 , X , 5 , 3 } , then X = ...

a) 8 **b)** 7 **c)** 6 **d)** 4

(14) If the altitudes of a triangle intersect at point outside the triangle, then measure of greatest angle in this triangle may be = ...

a) 70° **b)** 90° **c)** 130° **d)** 180°

Good Luck

[2] Complete each of the following with correct answers:

15) 0.005×0.7 = ...

16) 1.9×6 = ...

17) 734 dm = ... m

18) If U = { 4 , 5 , 6 } , X = { 5 } , then $X^{\setminus}$ = ...

19) { 8 , 3 } $\cup$ { 8 , 4 , 3 } = ...

20) If the distance between center of the circle and any point on the circle 4 cm, the length of its diameter = ...

21) The perimeter of a square is 24 cm, its side is a diameter of a circle, then the radius of this circle = ... cm

22) In an experiment of rolling a die once, the probability of getting a number more than 6 is .....

[3] Answer the following questions:

23) U = { 5 , 6 , 7 , 8 } , X = { 6 , 7 } , Y = { 8 , 6 } write the following sets in a listing method:

① $X \cap Y$ = ... ② $X - Y$ = ...

③ $X^{\setminus}$ = ... ④ $Y^{\setminus}$ = ...

24) A chicken farm sold 225 chickens with 10125 L.E. Find the price of each one?

25) A bag contains 2 Yellow balls , 4 blue balls , 3 white balls, all balls are identical and in same size, a ball is chosen randomly, find:

① Probability of chosen a yellow ball

② Probability of chosen a blue or white ball

26) Draw an equilateral Δ ABC its side length is 4 cm, then draw $\overrightarrow{AD} \perp \overline{BC}$

==========

✶✶ End of the questions ✶✶

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (03) First term Jan 2019

[1] Choose the correct answer:

(1) 78.5 × 1000 = ...

a) 7.85 **b)** 7850 **c)** 0.785 **d)** 785

(2) 32.683 ≃ ..... to nearest hundredths

a) 23.68 **b)** 32.69 **c)** 32.7 **d)** 32.68

(3) { 7 , 5 } ..... { 1 , 3 , 5 , 7 }

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(4) If the radius of a circle is 3 cm , then the length of longest chord = ...cm

a) 3 **b)** 6 **c)** 4.5 **d)** 12

(5) 3 ..... { 2 , 3 , 5 }

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(6) $\frac{3}{5}$ ..... $\frac{3}{8}$

a) > **b)** = **c)** < **d)** ≤

(7) $\frac{5}{6} \div 1\frac{1}{6}$ = ...

a) $\frac{5}{7}$ **b)** $\frac{2}{6}$ **c)** $\frac{5}{6}$ **d)** $\frac{7}{6}$

(8) $4\frac{1}{8} \times 2\frac{2}{3}$ = ...

a) 1 **b)** 10 **c)** 11 **d)** 111

(9) 5.45 ÷ 0.5 = ...

a) 10.9 **b)** 1.09 **c)** 109 **d)** 190

(10) If X ⊂ Y , then X ∩ Y = ...

a) X **b)** Y **c)** U **d)** ∅

(11) 5.3 Km = ... m

a) 53 **b)** 530 **c)** 5300 **d)** 53000

(12) { 5 , 2 , 7 } – { 2 , 7 , 6 } = ...

a) { 7 } **b)** ∅ **c)** { 2 } **d)** { 5 }

(13) If { 3 , 6 } = { 1 + X , 3 } then X = ...

a) 2 **b)** 3 **c)** 4 **d)** 5

(14) Number of altitudes of the acute angled - triangle is .....

a) 1 **b)** 2 **c)** 3 **d)** 4

Good Luck

[2] Complete each of the following with correct answers:

15) 2.4×4.7 = ...

16) 2.37×5 = ...

17) $365.25 \div 100$ = ...

18) $\{ 2 , 4 , 7 \} \cup \{ 1 , 4 , 7 \}$ = ...

19) If U = { 4 , 5 , 6 , 7 ,8 } , X = { 4 , 5 , 6 } then $X^{\setminus}$ = ...

20) The midpoint of any diameter in the circle is .....

21) Any chord passes the center of circle is called .....

22) If the probability of the successful of a student in math exam 0.8, then the probability of its failure = ...

---

[3] Answer the following questions:

23) Find all subsets from { 5 , 6 }

24) When rolling a die once, then the probability of appear :

① Even number ② number > 5

25) A merchant has 1575 boxes of orange; he wants to carry it in a car which only has 105 boxes. How many cars he need to carry all the boxes?

26) Draw an isosceles Δ ABC in which AB = AC = 5 cm, BC = 6 cm, then draw $\overline{BD} \perp \overline{AC}$. **Find** the length of $\overline{BD}$?

==========

★★ End of the questions ★★

Good Luck

هشام الشربيني الدرجة النهائية full mark Mr. Salman Zaky

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (04) First term Jan 2019

[1] Choose the correct answer:

(1) 43 days ≃ ..... week

a) 4 **b)** 5 **c)** 6 **d)** 7

(2) 327 ÷ 24 = 3.27 ÷ .....

a) 2.4 **b)** 0.24 **c)** 24 **d)** 2004

(3) { 34 } ..... { 4 , 3 }

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(4) 37.563 ≃ 37.6 to nearest .....

a) Tenths **b)** Hundredths **c)** Thousandths **d)** Ten thousandths

(5) 2.75 × 1000 = ...

a) 275 **b)** 27.5 **c)** 2750 **d)** 0.0275

(6) Number of subsets of { 3 , 5 } = ...

a) 4 **b)** 5 **c)** 2 **d)** 3

(7) If X ⊂ Y , then X ∩ Y = ...

a) X **b)** Y **c)** ∅ **d)** U

(8) If { 3 , 6 } = { X + 1 , 3 } , then X = ...

a) 2 **b)** 3 **c)** 4 **d)** 5

(9) If the longest chord in the circle is 8 cm, then the radius = ... cm

a) 8 **b)** 4 **c)** 16 **d)** 2

(10) 22.22 ÷ 11 = ...

a) 2.2 **b)** 2.02 **c)** 0.22 **d)** 2

(11) The probability of appear number 5 on upper face when rolling a die once is .....

a) $\frac{1}{2}$ **b)** $\frac{1}{6}$ **c)** $\frac{5}{6}$ **d)** $\frac{2}{3}$

(12) Its ..... that the sun rises from west.

a) Possible **b)** Impossible **c)** Certain **d)** Expected

(13) $8.25 \div 8\frac{1}{4}$ = ...

a) 101 **b)** 1 **c)** 1.01 **d)** 10.1

(14) $\frac{1}{25} \times 50 \times 0.25$ = ...

a) 4 **b)** 0.25 **c)** 0.5 **d)** 2

Good Luck

[2] Complete each of the following with correct answers:

15) $\frac{2}{5} = \frac{a}{15}$, then a =

16) ..... ÷ 10 = 324

17) 5.4 ton = ... Km

18) ∅ ..... { 1 , 2 , 7 }

19) $U^{\setminus}$ = ...

20) The triangle whose angles 20° , 50° , 110° is called .....

21) Number of altitudes of right angled – triangle = ...

22) If the probability of success pupils is $\frac{8}{10}$ then the probability of the failure is .....

---

[3] Answer the following questions:

23) If the price of cloth is 8.35 L.E, find the price of 4.5 meters

24) If X = { 1 , 4 , 3 } , Y = { 2 , 3 , 5 }

Then: ① X ∪ Y = ... ② X – Y = ...

25) A die is rolled 100 times, find the probability of appear an odd number

26) Draw triangle ABC , AB = 4 cm , BC = 3 cm , AC = 5 cm. Draw $\overline{MD} \perp \overline{MC}$

==========

★★ End of the questions ★★

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (05) First term Jan 2019

[1] Choose the correct answer:

(1) 6.7891 ≃ ..... to nearest thousandths

a) 6.8 **b)** 6.79 **c)** 6.789 **d)** 678.91

(2) ∅ ..... Z

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(3) 9.999 ≃ 10.00 to nearest .....

a) Unit **b)** Tenths **c)** Hundredths **d)** Hundred

(4) $\frac{31}{8}$ ..... $3\frac{7}{8}$

a) > **b)** = **c)** < **d)** ≤

(5) Number of diameter can be drawn from any point on the circle = ...

a) 1 **b)** 2 **c)** 3 **d)** Infinite

(6) 100 ..... { 0 , 2 , 4 , 6 , ... }

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(7) 4.5 m = ... Cm

a) 45 **b)** 0.045 **c)** 450 **d)** 0.45

(8) $\frac{15}{3} \times \frac{3}{5}$ = ...

a) 15 **b)** 3 **c)** 5 **d)** $\frac{3}{5}$

(9) If Y ⊂ X , then Y – X = ...

a) X **b)** Y **c)** ∅ **d)** U

(10) 4069 ÷ 313 = ...

a) 103 **b)** 13 **c)** 31 **d)** 301

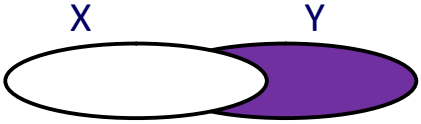
(11) $A \cup A^{\setminus}$ = ...

a) ∅ **b)** U **c)** A **d)** $A^{\setminus}$

(12) 1.919 ÷ 1.9 = ...

a) 1.01 **b)** 101 **c)** 10.1 **d)** 11

(13) The shaded part is .....



a) Y – X **b)** Y ∩ X **c)** Y ∪ X **d)** X

(14) Point of intersection of altitudes in acute angled – triangle lies ..... Triangle

a) Inside **b)** Outside **c)** On **d)** On vertex

Good Luck

[2] Complete each of the following with correct answers:

15) The line segment drawn between center of circle and any point on the circle is called .....

16) If the probability of success pupils is $\frac{11}{13}$ then the probability of the failure is .....

17) Number of perpendicular line segment of an equilateral triangle = ...

18) $\frac{4}{3} \simeq$ ..... to nearest tenths

19) $\frac{3}{17} \div \frac{9}{17}$ = ...

20) 547.5 ÷ 1000 = ...

21) { 8 , 3 } ∪ { 13 , 8 } = ...

22) If { 1 , 5 , b + 4 } ⊂ { 5 , 1 , 3 , 10 } , then b = ...

[3] Answer the following questions:

23) If U = { X : X odd number less than 14 } , X = { 1 , 3 , 5 } , Y = { 9 , 7 , 5 } find :

① $Y \cap X$ ② Y'

24) If the price of one kilogram of apple is 17.5 L.E, find the price of 3.5 KG of same apple?

25) A class has 30 boys and 17 girls. If a pupil is chosen randomly, find the probability that the chosen pupil is a boy.

26) Draw Δ ABC an equilateral triangle its side 5 cm, draw $\overline{DE} \perp \overline{AB}$

★★ End of the questions ★★

Dakahlia government
Maths Supervision

Mathematics
Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (06) First term Jan 2019

[1] Choose the correct answer:

(1) 476.532 ≃ ..... to nearest hundredths

a) 377 **b)** 476.53 **c)** 276.54 **d)** 674.53

(2) 69.25 × 10 = ...

a) 6925 **b)** 6.925 **c)** 692.5 **d)** 0.6925

(3) 7 ..... { 5 , 3 , 9 }

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(4) $\frac{1}{2}$ ..... $\frac{1}{3}$

a) > **b)** = **c)** < **d)** ≤

(5) { 1 , 2 } ..... { 21 , 12 }

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(6) 48.6 ÷ 0.9 = ...

a) 9 **b)** 54 **c)** 24 **d)** 34

(7) $4\frac{1}{8} \times 2\frac{2}{3}$ = ...

a) 1 **b)** 10 **c)** 11 **d)** 111

(8) $\frac{3}{X} = \frac{18}{24}$

a) 4 **b)** 6 **c)** 3 **d)** 15

(9) { 2 , 3 , 5 , 7 } ∩ { 6 , 4 , 2 } = ...

a) ∅ **b)** { 2 } **c)** { 2 , 4 } **d)** { 6 , 2 }

(10) If { 3 , 6 } = { 5 + X , 3 } then X = ...

a) 1 **b)** 3 **c)** 4 **d)** 5

(11) The diameter in symbol as .....

a) r **b)** 2 r **c)** π **d)** r^2

(12) { 2 , 3 , 4 } − { 2 , 5 , 8 } = ...

a) ∅ **b)** { 2 } **c)** { 3 , 4 } **d)** { 8 , 2 }

(13) Any triangle has ..... Altitudes

a) 1 **b)** 2 **c)** 3 **d)** 4

(14) Million is the smallest number formed from ..... digits

a) 6 **b)** 7 **c)** 8 **d)** 9

Good Luck

[2] Complete each of the following with correct answers:

15) 7.6×2.3 = ...

16) $38.7 \div 10$ = ...

17) 46.8×9 = ...

18) $\{ 1 , 2 \} \cup \{ 2 , 3 \}$

19) The circle is .....

20) If U = { 1 , 2 , 3 , 4 , 5 , 6 } , Y = { 2 , 3 , 4 , 6 } , then $Y^{\setminus}$ = ...

21) To draw a circle its radius 4 cm, we open the compasses on ..... cm

22) Probability of impossible event is .....

[3] Answer the following questions:

23) Write all subset of { 1 , 2 , 3 }

27) A merchant has 1575 boxes of orange; he wants to carry it in a car which only has 105 boxes. How many cars he need to carry all the boxes?

28) A bag contains 4 white balls , 7 red balls , 5 yellow balls, all balls are identical and in same size, a ball is chosen randomly, find:

① Probability of chosen a white ball

② Probability of chosen a green ball

③ Probability of chosen a red or yellow ball

★★ End of the questions ★★

Good Luck

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (07) First term Jan 2019

[1] Choose the correct answer:

(1) 3.26 Km = ... m

a) 326 **b)** 32.6 **c)** 3260 **d)** 0.326

(2) $9\frac{3}{25} \simeq$ ..... to nearest tenths

a) 0.9 **b)** 9.2 **c)** 9.1 **d)** 9

(3) $\frac{5}{6} \div 1\frac{1}{6}$ = ...

a) $\frac{5}{7}$ **b)** $\frac{2}{6}$ **c)** $\frac{3}{7}$ **d)** $\frac{7}{6}$

(4) 5.45 ÷ 0.5 = ...

a) 1.9 **b)** 0.19 **c)** 1.09 **d)** 10.9

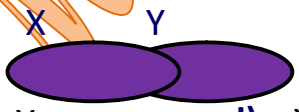
(5) 4.27 × 10 ..... 0.427 × 100

a) < **b)** = **c)** > **d)** ≤

(6) If 6 ∈ { 3 , 5 , X } , then X = ...

a) 2 **b)** 3 **c)** 4 **d)** 6

(7) The shaded part is .....

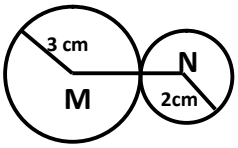


a) Y ⊂ X **b)** Y ∩ X **c)** Y ∪ X **d)** $X^{\setminus}$

(8) If Y = { 2 , 3 , 5 } − { 1 , 3 , 5 } , then { 1 , 2 , 3 , 5 } ..... Y

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(9) In the opposite figure,
M , N two circles,
then MN = ...



a) 5 **b)** 6 **c)** 3 **d)** 2

(10) The longest chord in the circle is .....

a) r **b)** 2 r **c)** 3 r **d)** $\frac{1}{2}$ r

(11) The probability of success pupils is 0.8 , the probability of the failure is ..

a) 0.8 **b)** 0.2 **c)** 1 **d)** 0.1

(12) If X ⊂ Y , then Y − X = ...

a) ∅ **b)** X **c)** Y **d)** $Y^{\setminus}$

(13) The set of digits of the number **5533** is.....

a) { 5533 } **b)** { 55 , 33 } **c)** { 5 , 3 } **d)** { 5 3 }

(14) 4.2 × ..... = 4200

a) 10 **b)** 100 **c)** 1000 **d)** 10000

Good Luck

[2] Complete each of the following with correct answers:

15) If $X \subset Y$, then $X \cap Y$ = ...

16) Axis of symmetry in the circle is .....

17) 4.798 ≃ ..... to nearest hundredths

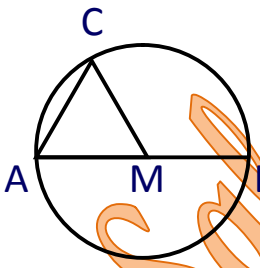
18) If { 7 , 10 } ⊂ { 10 , X + 4 } , then X = ...

19) 3.75 × 1000 = ...

20) 597.8 cm ≃ ..... m

21) In the opposite figure:

MA = ... = ...



22) In the opposite figure:

Y – X = ...

[3] Answer the following questions:

23) Find the area of rectangle whose length 4.1 cm , width 3.5 cm

24) 77.4 ÷ 6.45 = ...

25) A bag contains 20 balls, 9 red balls , 6 black balls and the rest is white balls, all balls are identical and in same size, a ball is chosen randomly, find: Probability of chosen a white ball

26) Arrange descending:

$$0.6 \ , \ \frac{3}{4} \ , \ \frac{2}{5} \ , \ 0.8$$

★★ End of the questions ★★

Good Luck

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

«Grade 5» Model (08) First term Jan 2019

[1] Choose the correct answer:

(1) { 7 , 3 } .... { 1 , 3 , 5 , 7 }

a) $\in$ **b)** $\subset$ **c)** $\notin$ **d)** $\not\subset$

(2) $2.5781 \simeq 2.58$ to nearest ....

a) Tenths **b)** Hundredths **c)** Thousandths **d)** Unit

(3) The probability of appearance a head when throwing a coin once is ....

a) 0 **b)** 1 **c)** $\frac{1}{2}$ **d)** $\frac{1}{3}$

(4) The longest chord in the circle is called ....

a) Chord **b)** Diameter **c)** Radius **d)** Perimeter

(5) Number of subsets for X { 2 , 3 , 4 } is ......

a) 16 **b)** 2 **c)** 4 **d)** 8

(6) The prime number 23 divisible by ....

a) 11 **b)** 12 **c)** 23 **d)** 13

(7) 55.241×100 .... 522.1×10

a) < **b)** = **c)** > **d)** $\leq$

(8) $355 \div 18 = 3.55 \div$ ....

a) 1.8 **b)** 0.18 **c)** 18 **d)** 1800

(9) 1.25×3.2 .... 32×12.5

a) > **b)** = **c)** < **d)** $\leq$

(10) Number of altitudes of acute angle triangle is ....

a) 1 **b)** 2 **c)** 3 **d)** 4

(11) $\frac{5}{8}$ 0.5734

a) > **b)** < **c)** = **d)** $\leq$

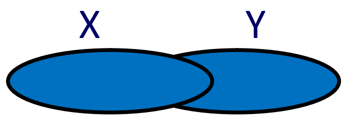
(12) $3\frac{1}{2} \div \frac{7}{12} =$ ....

a) 4 **b)** 6 **c)** $\frac{21}{3}$ **d)** $\frac{50}{21}$

(13) If $6 \in \{3, 5, 2X\}$, then X = ...

a) 2 **b)** 3 **c)** 5 **d)** 6

(14) The shaded part is ....



a) $Y - X$ **b)** $Y \cap X$ **c)** $Y \cup X$ **d)** X

[2] Complete each of the following with correct answers:

15) $4\frac{1}{8} \times 2\frac{2}{3}$ = ...

16) If $\frac{a}{8} = \frac{15}{24}$, then a = ...

17) If $X \subset Y$, then $X \cup Y$ = ...

18) $\varnothing$ ..... { a , b }

19) 7 ..... { 17 , 77 }

20) The triangle whose angles 50° , 90° , 40° is called .....

21) 2.4 dm = ... cm

22) The probability of impossible event = ...

[3] Answer the following questions:

23) If the price of one meter of cloth is 6.45 L.E, find the price of 2.4 meters

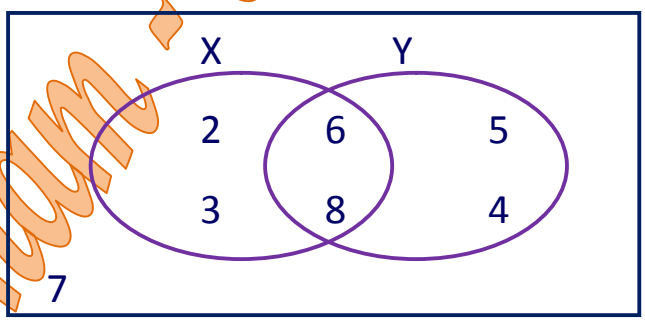
24) From the opposite Venn diagram find :

① $X \cup Y$ = ...

② $X - Y$ = ...

③ $Y \cap X$ = ...

④ Y' = ...



25) A bag contains 3 white balls , 7 red balls , 5 yellow balls, all balls are identical and in same size, a ball is chosen randomly, find:

① Probability of chosen a white ball

② Probability of chosen a red or yellow ball

26) Draw Δ ABC an equilateral triangle its side = 5 cm , draw $\overline{MD} \perp \overline{MC}$. **Find** the perimeter of triangle

★★ End of the questions ★★

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

Grade 5 Model (09) First term Jan 2019

[1] Choose the correct answer:

(1) { 9 } ..... { 99 . 19 }

a) $\in$ **b)** $\notin$ **c)** $\subset$ **d)** $\not\subset$

(2) The altitudes of acute angled triangle intersect at one point lies ..... triangle

a) Inside **b)** Outside **c)** On **d)** In vertex

(3) A circle its diameter = 6 cm , then its radius = ... cm

a) 3 **b)** 6 **c)** 12 **d)** 4

(4) The value of 7 in the number 43.72 is .....

a) 7 **b)** 70 **c)** 0.7 **d)** 0.07

(5) $\varnothing$ ..... { 0 }

a) $\in$ **b)** $\notin$ **c)** $\subset$ **d)** $\not\subset$

(6) $1\frac{3}{4} \div \frac{1}{4}$ = ...

a) 7 **b)** 4 **c)** 3 **d)** 1

(7) Number of subsets of { 2 , 3 } = ...

a) 2 **b)** 3 **c)** 4 **d)** 5

(8) $25\frac{1}{4} \times 10$ = ...

a) 25.25 **b)** 252.5 **c)** 2.525 **d)** 2525

(9) 62 months $\simeq$ ..... years

a) 5 **b)** 6 **c)** 7 **d)** 8

(10) If the probability of a football team win is 4 from 5, then its defeat is ....

a) $\frac{1}{5}$ **b)** $\frac{2}{5}$ **c)** $\frac{3}{5}$ **d)** $\frac{4}{5}$

(11) The triangle whose angles 90° , 60° , 30° is ..... triangle

a) Acute **b)** Right **c)** Obtuse **d)** Straight

(12) 24 kilogram = ... ton

a) 0.240 **b)** 0.204 **c)** 0.042 **d)** 0.024

(13) The longest chord in the circle is .....

a) Radius **b)** Diameter **c)** Chord **d)** Center

(14) $\frac{2}{3}$ ..... $\frac{3}{4}$

a) > **b)** < **c)** = **d)** $\leq$

Good Luck

[2] Complete each of the following with correct answers:

15) 26.48 ÷ 2 = ...

16) 35.475 + 64.34 = ... ≃ ..... to nearest 0.1

17) Arrange descending : 0.3 , 0.5 , $\frac{1}{5}$, $\frac{3}{4}$

..... , ... , ... , ...

18) 3.65 ÷ ..... = 365

19) If 6 ∈ { 4 , 3 X } , then X = ...

20) The compasses is used to draw a triangle if we know .....

21) The subset of the sample space is called .....

22) The quotient of 75.95 ÷ 0.31 = ...

[3] Answer the following questions:

23) From the opposite Venn diagram find :

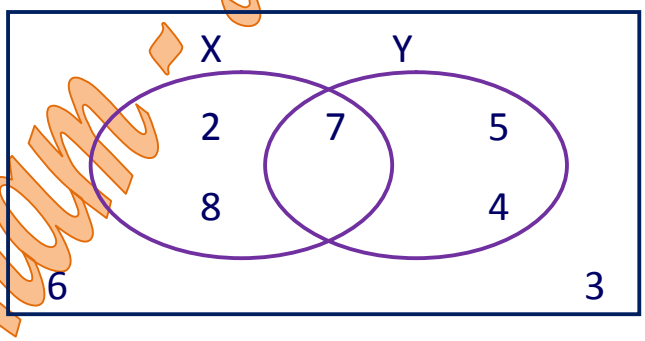
① X = ...

② X – Y = ...

③ Y ∩ X = ...

④ $Y^{\setminus}$ = ...

⑤ X ∪ Y = ...



24) Draw a circle M its diameter AB = 6 cm , then draw a chord AC = 4 cm

★★ End of the questions ★★

Dakahlia government
Maths Supervision

Mathematics
Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (10) First term Jan 2019

[1] Choose the correct answer:

(1) 3.75 × ..... = 3750

a) 10 **b)** 100 **c)** 1000 **d)** 10000

(2) 475 ÷ 25 = ... ÷ 50

a) 475 **b)** 500 **c)** 950 **d)** 450

(3) 39 days ≃ ..... week

a) 5 **b)** 6 **c)** $5\frac{4}{7}$ **d)** 7

(4) The right angled triangle has ..... Altitudes

a) 0 **b)** 1 **c)** 2 **d)** 3

(5) If X ⊂ Y then X ∩ Y = ...

a) X **b)** Y **c)** U **d)** $X^{\setminus}$

(6) The quotient of 22.5 ÷ 1.5 = ...

a) 1.5 **b)** 15 **c)** 0.15 **d)** 500

(7) In a circle, if MA = r , then point A lies ..... Circle

a) Inside **b)** On **c)** Outside **d)** Otherwise

(8) { 4 , 5 } ..... { 2 , 3 , 5 , 7 }

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(9) $6\frac{1}{4} \div 12\frac{1}{2}$ = ...

a) $\frac{1}{4}$ **b)** $\frac{1}{2}$ **c)** $\frac{1}{8}$ **d)** $\frac{3}{4}$

(10) If 6 ∈ { 3 X , 4 , 5 } , then X = ...

a) 2 **b)** 3 **c)** 4 **d)** 6

(11) 67.5 – 55.76 = ...

a) 117.4 **b)** 1.174 **c)** 11.74 **d)** 133.26

(12) { 1 , 2 } ∩ { 3 , 4 } = ...

a) { 1 , 2 } **b)** { 3 , 4 } **c)** { 1 , 2 , 3 ,4 } **d)** ∅

(13) X – Y ..... Y – X

a) = **b)** ≠ **c)** ≡ **d)** Other wise

(14) Number of subsets of { 4 , 5 } is .....

a) 2 **b)** 3 **c)** 4 **d)** 5

Good Luck

هشام الشربيني الدرجة النهائية full mark Mr. Salman Zaky

[2] Complete each of the following with correct answers:

15) ∅ ..... { a , b }

16) 65.35 + 17.025 = ... ≃ ..... to nearest $\frac{1}{100}$

17) The altitudes of obtuse angled triangle intersect at point lies ..... triangle

18) { 3 , 4 } = { 1 + y , 4 } , then Y = ...

19) The decimal form of fraction $\frac{3}{20}$ is .....

20) To draw a circle its diameter 6.8 cm, we open the compasses on ..... cm

21) If the probability of a football team win is $\frac{5}{8}$, then the probability of its defeat is ....

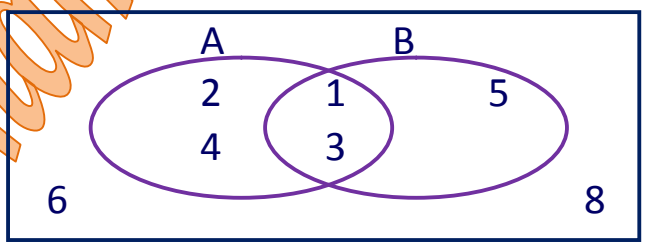
22) If $\frac{b}{8} = \frac{20}{32}$, then a = ...

[3] Answer the following questions:

23) A tin filled with 236.25 of oil is wanted to refill in small bottles each one has 0.75 kg. Find the number of small bottles.

25) From the opposite Venn diagram find :

① B = ...
② A – B = ...
③ A ∩ B = ...
④ $A^{\setminus}$ = ...



24) A bag contains 3 white balls , 7 red balls , 5 yellow balls, all balls are identical and in same size, a ball is chosen randomly, find:

① Probability of chosen a yellow ball
② Probability of chosen not red

25) Draw Δ ABC an equilateral triangle its side = 5 cm. determine the type of triangle according to its angles

==========

★★ End of the questions ★★

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (11) First term Jan 2019

[1] Choose the correct answer:

(1) 4.79 × ..... = 47900

a) 10 **b)** 100 **c)** 1000 **d)** 10000

(2) A square its side length 8 cm , then its area = ... cm^2

a) 16 **b)** 32 **c)** 48 **d)** 64

(3) 45 days ≃ ..... Week

a) 5 **b)** 6 **c)** $5\frac{4}{7}$ **d)** 7

(4) Number of line of symmetry for square is .....

a) 1 **b)** 2 **c)** 3 **d)** 4

(5) If $X \subset Y$, then $X \cap Y$ = ...

a) X **b)** Y **c)** U **d)** $\varnothing$

(6) If $a \in X$ and $a \in Y$, then $a \in$ .....

a) $X \cup Y$ **b)** $X \cap Y$ **c)** $X - Y$ **d)** $Y - X$

(7) If $X \cap Y = \varnothing$, then X , Y are ..... Sets

a) Equal **b)** Intersecting **c)** Disjoint **d)** Contains

(8) $5\frac{1}{8}$ ≃ ..... (to nearest hundredth)

a) 5.125 **b)** 5.14 **c)** 5.13 **d)** 5.1

(9) $\frac{1}{4} \div \frac{1}{2}$ = ...

a) $\frac{1}{4}$ **b)** $\frac{1}{2}$ **c)** $\frac{1}{8}$ **d)** $\frac{3}{4}$

(10) If $9 \in \{ 3X , 4 , 5 \}$, then X = ...

a) 2 **b)** 3 **c)** 4 **d)** 6

(11) The greatest number of the following is .....

a) 0.111 **b)** 0.12 **c)** 0.123 **d)** 1.023

(12) $\{ 1 , 4 \} \cap \{ 3 , 4 \}$ = ...

a) $\{ 4 \}$ **b)** $\{ 3 , 4 \}$ **c)** $\{ 1 , 3 \}$ **d)** $\varnothing$

(13) The longest chord in the circle is .....

a) Diameter **b)** Radius **c)** Chord **d)** Center

(14) Number of subsets of { a , b } is .....

a) 2 **b)** 3 **c)** 4 **d)** 5

[2] Complete each of the following with correct answers:

15) The probability of sure event is .....

16) 346.2×0.01 = ...

17) Any line segment which joins two points on the circle is called .....

18) 3 ..... { 7 , 3 }

19) The altitudes of acute angled triangle intersect at one point lies ..... triangle

20) To draw a circle its diameter 10 cm, we open the compasses on ..... cm

21) 54.55×10 = ...

22) $\frac{3}{8} \div 3$ = ...

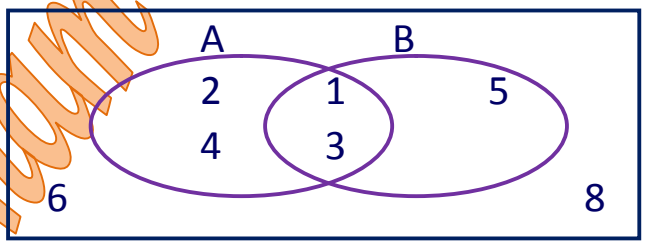
23) The reciprocal of the number $1\frac{3}{5}$ is .....

[3] Answer the following questions:

24) Draw a circle M its diameter XY = 5 cm

25) From the opposite Venn diagram find :

① B = ...
② A – B = ...
③ A ∩ B = ...
④ $A^{\setminus}$ = ...



26) In an experiment of rolling a die once, Find the probability of:

① Getting a number more than 6

② Getting an even number

★★ End of the questions ★★

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (12) First term Jan 2019

[1] Choose the correct answer:

(1) ∅ ..... { 0 }

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(2) 736.25 – 417.34 = ... to nearest tenths

a) 318.8 **b)** 318.9 **c)** 417.8 **d)** 212.83

(3) A circle its radius is 3 cm, then the length of longest chord = ...

a) 3 **b)** 6 **c)** 12 **d)** 4.5

(4) The smallest decimal fraction formed from 7 , 5 , 3 is .....

a) 7.53 **b)** 0.753 **c)** 0.357 **d)** 0.375

(5) { 9 } ..... { 99 , 90 }

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(6) The perimeter of an equilateral triangle whose side 4 cm = ... cm

a) 7 **b)** 12 **c)** 16 **d)** 40

(7) If $\frac{a}{8} = \frac{15}{24}$, then a = ...

a) 4 **b)** 6 **c)** 12 **d)** 15

(8) { 5 , 6 , 1 } – { 2 , 5 , 8 } = ...

a) { 5 } **b)** { 6 , 1 } **c)** { 2 , 8 } **d)** { 5 , 6 , 1 ,8 }

(9) 5.7 × ..... = 5700

a) 10 **b)** 100 **c)** 1000 **d)** 10000

(10) $\frac{3}{4}$ ..... $\frac{2}{3}$

a) > **b)** < **c)** = **d)** ≤

(11) The quotient of 11664 ÷ 216 = ...

a) 540 **b)** 54 **c)** 504 **d)** 45

(12) $\frac{1}{2} \div \frac{1}{8}$

a) 4 **b)** 16 **c)** $\frac{1}{4}$ **d)** $\frac{1}{16}$

(13) 2 ..... { 1 , 2 , 3 }

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(14) 39 days ≃ ..... week

a) 4 **b)** 5 **c)** 6 **d)** 7

Good Luck

[2] Complete each of the following with correct answers:

15) 954.36 ÷ 100 = ...

16) If 7 ∈ { 9 , 3 , X + 2 } , then X = ...

17) $1\ \frac{1}{2} \div 2\ \frac{3}{4}$ = ...

18) 18.8 × 7.1 = ...

19) In an experiment of rolling a die once, the probability of getting an odd number on the upper face is .....

20) 25800 gm = ... kg

21) The number of altitudes of obtuse angled triangle = ...

22) The perimeter of square whose sides 8.4 cm is .....

[3] Answer the following questions:

23) Write all subsets of X = { 6 , 4 }

24) Packet of papers its height 10.8 cm, if all papers are equal in trickiness and each one 0.09 mm. How many papers in the packet

25) A bag contains 4 white balls , 9 red balls , 3 yellow balls, all balls are identical and in same size, a ball is chosen randomly, find:

① Probability of chosen a yellow ball
② Probability of chosen not red

26) Draw Δ ABC, AB = 4 cm, BC = 3 cm, AC = 5 cm. then draw $\overline{AD} \perp \overline{BC}$. Find the length of $\overline{AD}$

✶✶ End of the questions ✶✶

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (13) First term Jan 2019

[1] Choose the correct answer:

(1) The greatest number of the following is.....

a) 0.0432 **b)** 0.4 **c)** 0.099 **d)** 0.1697

(2) $\frac{\overline{3}}{5}$ ..... $\frac{\overline{5}}{3}$

a) > **b)** < **c)** = **d)** ≤

(3) Number of months in quarter year = ... months

a) 12 **b)** 8 **c)** 6 **d)** 3

(4) { 5 } ..... { 2 , 5 }

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

(5) If lengths of the sides in a triangle are 5 , 5 , 5 cm, then the measure of each angle = ...

a) 50^o **b)** 15^o **c)** 60^o **d)** 90^o

(6) When rolling a die once, the probability of appearance number less than or equal 4 is .....

a) 1 **b)** $\frac{1}{6}$ **c)** $\frac{2}{3}$ **d)** $\frac{1}{2}$

(7) Number of subsets of { 3 , 4 , 5 } = ...

a) 6 **b)** 8 **c)** 12 **d)** 16

(8) If 6 ∈ { 3 , 5 , $\frac{X}{2}$ } then X = ...

a) 3 **b)** 6 **c)** 10 **d)** 12

(9) 355 ÷ 18 = 3.55 ÷ .....

a) 1.8 **b)** 0.18 **c)** 18 **d)** 1800

(10) 10 halves ..... 20 quarters

a) > **b)** = **c)** < **d)** ≤

(11) If X ⊂ Y , then X ∩ Y = ...

a) X **b)** Y' **c)** ∅ **d)** U

(12) The diameter of circle whose radius 1.5 cm = ... cm

a) 1.5 **b)** 2 **c)** 3 **d)** 6

(13) The perpendicular line segment of right angled triangle intersect at point lies .....

a) Inside triangle **b)** Outside triangle **c)** In vertex of right angle **d)** Other wise

(14) If a ∈ X , then { a } ..... X'

a) ∈ **b)** ∉ **c)** ⊂ **d)** ⊄

Good Luck

[2] Complete each of the following with correct answers:

15) Number of altitudes of right angled triangle = ...

16) 7.25 + 18.025 = ... ≃ ..... to nearest $\frac{1}{100}$

17) { 3 , 7 , 0 } ∩ { 2 , 0 , 3 } = ...

18) To draw a circle its diameter 4.8 cm, we open the compasses on ..... cm

19) $39\frac{2}{5}$ – 7.25 = ... ≃ ..... to nearest unit

20) 1 – 0.979 = ... ≃ ..... to nearest $\frac{1}{100}$

21) (9.4 × 0.3) + 2.3 = ...

22) The difference between $\frac{31}{500}$, 0.031 = ...

[3] Answer the following questions:

23) A family consumes 9.5 Kg monthly, if the price of one kilogram is 120 L.E. How much many this family paid every year to nearest pound.

24) Arrange ascending: 0.8 , $\frac{5}{8}$, 0.6 , $\frac{3}{4}$

25) Find the number if we multiply it by 0.5 the result will be 33.86

26) Draw Δ ABC , AC = 6 cm , BC = 5 cm , m (∠ C) = 120°
Then draw its three altitudes.

★★ End of the questions ★★

Dakahlia government — Mathematics

Maths Supervision — Time: $1\frac{1}{2}$ hour

﴿Grade 5﴾ Model (14) First term Jan 2019

[1] Choose the correct answer:

(1) $\frac{2}{3} \times \frac{3}{4}$ = ...

a) 4 **b)** $\frac{1}{2}$ **c)** 2 **d)** $\frac{1}{4}$

(2) Probability of appearance a prime number when rolling a die once is ...

a) $\frac{1}{2}$ **b)** $\frac{2}{3}$ **c)** $\frac{1}{6}$ **d)** $\frac{1}{3}$

(3) The right angled triangle has ..... Altitudes

a) 1 **b)** 2 **c)** 3 **d)** 4

(4) $\frac{1}{2}$ ..... $\frac{4}{7}$

a) > **b)** = **c)** < **d)** ≤

(5) 29.75 = 29 + ...

a) $\frac{1}{2}$ **b)** $\frac{3}{4}$ **c)** $\frac{1}{4}$ **d)** $\frac{5}{7}$

(6) The diameter of circle = 2 × .....

a) 2 **b)** Chord **c)** Radius **d)** Diameter

(7) $\frac{8}{10} \div \frac{2}{10}$ = 80 ÷ .....

a) 10 **b)** 20 **c)** 40 **d)** 2

(8) If X ⊂ Y , then X ∪ Y = ...

a) X **b)** Y **c)** U **d)** ∅

(9) Number of subsets of { 3 } is .....

a) 1 **b)** 2 **c)** 3 **d)** 4

(10) ..... is used for drawing

a) Triangle **b)** Protractor **c)** Compasses **d)** Ruler

(11) 9.6 ton = ... Kg

a) 960 **b)** 9600 **c)** 0.096 **d)** 0.96

(12) 127 ÷ 24 = 1.27 ÷ .....

a) 2.4 **b)** 0.24 **c)** 24 **d)** 2004

(13) $4\frac{3}{8} \simeq$ ..... To nearest hundredths

a) 4.83 **b)** 4.38 **c)** 4.37 **d)** 0.43

(14) $\frac{1}{25} \times 50 \times 0.25$ = ...

a) 4 **b)** 2 **c)** $\frac{1}{4}$ **d)** $\frac{1}{2}$

Good Luck

[2] Complete each of the following with correct answers:

15) The altitude of a triangle is .....

16) 3257 × ..... = 3.257

17) ..... × 100 = 72.5

18) The midpoint of any diameter in a circle is ..... of circle

19) Triangle whose angles 54° , 35° , 91° is called ..... triangle

20) 2.5 ÷ ..... = 250

21) { 2 , 3 , 6 , 12 } ∩ set of factors of number 6 = ...

22) $4\frac{1}{2} \div 2.5$ = ...

[3] Answer the following questions:

23) Find the number if we multiply it by 0.37 the result will be 17.8932

24) A bag contains 3 white balls , 7 red balls , 5 yellow balls, all balls are identical and in same size, a ball is chosen randomly, find:

① Probability of chosen a yellow ball

② Probability of chosen ball not red

25) Draw an isosceles Δ ABC in which AB = AC = 6 cm, BC = 4 cm, then draw its three altitudes?

26) If the price of one meter of cloth is 9.35 L.E, find the price of 35 meters

★★ End of the questions ★★

The cirlce

- **The circle:** some of points with constant distance from fixed point, the distance is called radius and the point is called a center of circle.
- **The radius:** is a line segment whose end points are the center of circle and any point $\in$ the circle.
- **The chord:** is a line segment connects between any two points on the circle
- **The diameter:** is a longest chord crosses the center of circle, D = 2 r
- **Central angle:** An angle its vertex the center of circle and its sides are radius in the circle.

Remarks

1) The diameter is the longest chord in the circle

2) The diameter = 2 × radius

3) The circle has infinite numbers of radii

4) The circle has infinite numbers of diameters

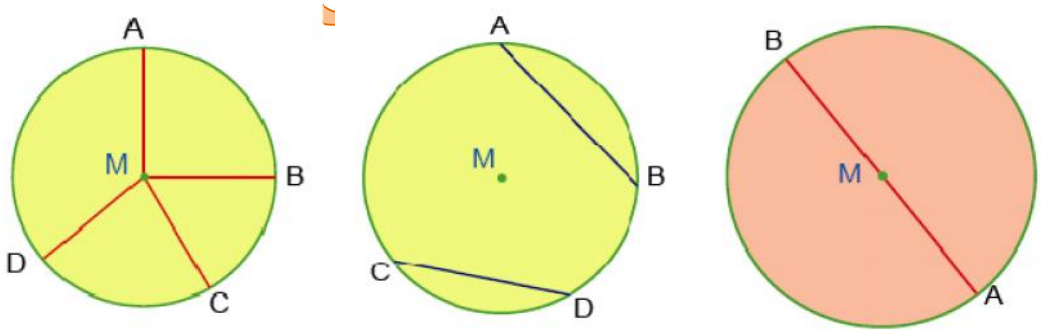
5) The circle has infinite numbers of chords

6) Each diameter is a chord but each chord not a diameter

7) The diameter divided the circle into two congruent parts.

8) All the radii in the circle are equal in length

9) A circle can be drawn if we know its radius or diameter



The Triangle

❒ **The triangle:** is a polygon with three sides and three angles

❒ The types of triangle according to its **angles**:

1) Acute angled – triangle — has three acute angles < 90^o
2) Right angle – triangle — has a right angle = 90^o
3) Obtuse angle – triangle — has obtuse angle > 90^o

❒ The types of triangle according to its **sides**:

1) Equilateral triangle — has three sides equal in length
2) Isosceles triangle — has two sides equal in length
3) Scalene triangle — has three sides different in length

Remarks

1) A Triangle can be drawn if we know the length of two sides and measure of included angle between them

2) A Triangle can be drawn if we know measure of two angles and the length of side is drawn between their vertices.

3) A Triangle can be drawn if we know the length of its three sides.

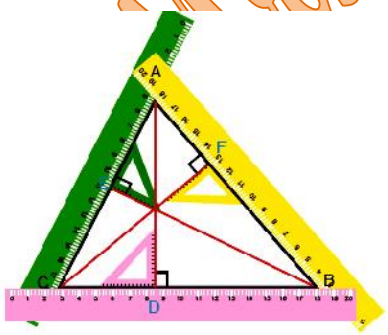
4) Any triangle has three altitudes

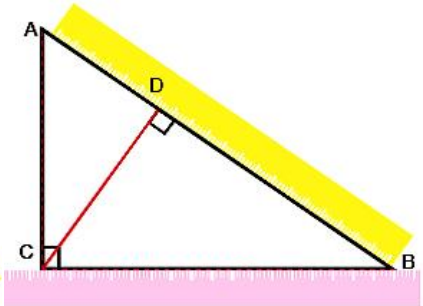
5) All the altitudes intersect at one point

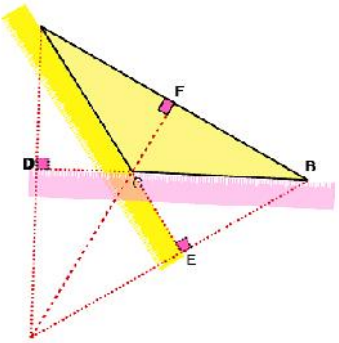
6) The altitudes of the acute triangle intersect at a point inside the triangle

7) The altitudes of the right triangle intersect at a point on the vertex of right angle

8) The altitudes of the obtuse triangle intersect at a point outside the triangle







The sets

❒ **The set:** collection of known objects that are clearly defined, and they have a certain property in common.

❒ **Express a set:**

- Any set can be written in a listing method and it's not important to pay attention to the order of the elements when writing it, and any set doesn't have a repeated elements.
- Any set can be written in a description method in which we define the property which determines the elements in a set.

❒ **Finite set:** it is a set has limited number of elements can be listed.

❒ **Infinite set:** it is a set has an unlimited number of elements cannot be listed.

❒ **Null set:** it is a set has no elements denoted by { } or ∅.

Importanat lows

- Perimeter of any polygon = The sum of lengths of its sides
  = the length of the line of closed curve
- Perimeter of triangle = sum of lengths of its three sides.
- Perimeter of equilateral triangle = Side length × 3
- Perimeter of Square = Side length × 4
- Perimeter of Rhombus = Side length × 4
- Perimeter of rectangle = (length + width) × 2
  ↳ Length + width = Perimeter of rectangle ÷ 2
- Circumference of circle = 2 π r = π d (π = 3.14 or $\frac{22}{7}$)
- Diameter = Circumference ÷ π
- Radius = Circumference ÷ 2 π

Model Exam (1)

Question 1:

- **Answer the following:**

a- 65.3814 + 63.4027 = …… ≃ …… (to the nearest $\frac{1}{1000}$)

b- 53.27 – 2.1 = …… ≃ …… (to the nearest tenth)

c- (3.425 + 1.07) ÷ 2.8 = …… ≃ …… (to the nearest hundredth)

d- 9.568 ÷ $9\frac{1}{5}$ = …… ≃ …… (to the nearest whole number)

e- …… ÷ 9 = 4.5

f- The chord of a circle is a line segment that connects ……

g- 2.9 ton = …… kg

h- A box contain 24 lamps, 3 lamps are defective. A lamp has been randomly selected, the probability of getting a functional lamp = ……

i- If X = {2, 3} , Y = {3, 5} , then X ∩ Y = ……

j- 254 hours ≃ …… days

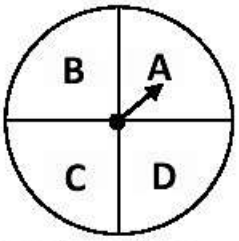
Question 2:

A) The area of a rectangle is 9.43 cm^2 and its width is 2.45 cm. find its length and approximate it to the nearest hundredth of centimeter.

B) Compare:

a- 0.46 ÷ 4.6	☐	0.01
b- 17.17 × 1.7	☐	39
c- 53.7 ÷ 3.5	☐	5.37 ÷ 0.35
d- 845 ÷ 4.9	☐	(84.5 ÷ 49) × 0.1

Question 3:



A) A spinner is divided into 4 equal sections.

a- What is the probability of spinning the letter B?

b- Spin the spinner 400 times. What is the predicted number of getting letter A?

B) Draw a circle whose centre is M and radius is 2.5 cm. then draw its diameter $\overline{AB}$ and draw its chord $\overline{AC}$ of length 3 cm. Draw $\overline{BC}$ then find its length.

Question 4:

A) If U = {1, 2, 3, 4, 5, 6} , X = {2, 3, 5} and Y = {3, 4, 5}
Represent the sets by Venn diagram. Then write each of the following by listing method:

a) X ∪ Y

b) X ∩ Y

c) X – Y

d) X`

B) Find the product of 58.62 × 35.2 and approximate it to the nearest hundredth.

Question 5:

- **Choose the correct answer:**

a- The number of subsets for the set {5} is ..... (0 – 1 – 2 – 3)

b- If M is a circle whose diameter is 8 cm where MA = 7 cm then the point A is located ..... (inside – outside – on) the circle.

c- 654 ÷ 76 = 6.54 ÷ ..... (76 – 0.76 – 7.6)

d- If $X \subset Y$ then $X \cap Y$ = ... (X – Y – Ø – U)

e- Ø ..... {0} (= – ⊂ – ⊄ – ∈)

Question 6:

A) Draw the isosceles triangle ABC in which BC = 4 cm, and AB = AC = 6 cm Then, draw perpendicular segments from their vertices to their three sides.

B) The following table lists the results of a survey applied on 100 spectators of T.V

Program	Arabic films	Foreign films	Series	News	Football matches
Number of spectators	19	20	15	10	36

A spectator has been randomly selected. Find the probability of selecting a spectator prefers:

a- Football matches b- foreign films c- series d- news

Model Exam (2)

Question 1:

- **Find the following:**

a- 729.72 – 122.7435 = …… ≃ …… (to the nearest hundredth)

b- 1.623 ÷ 0.152 = …… ≃ …… (to the nearest tenth)

c- 984.45 + 73.2 = …… ≃ …… (to the nearest unit)

d- 1.775 × 0.15= …… ≃ …… (to the nearest $\frac{1}{1000}$)

e- $4\frac{1}{2} \div 0.5$ = ……

f- X ∈ {2, 5} ∩ { 3, 5} , then X = ……

g- 8.56 m = …… km

Question 2:

A) A card has been randomly drawn out of 10 cards numbered from 1 to 10 Find the probability of getting:

a- An odd number

b- A prime number

c- An even number greater than 6

B) Draw the triangle ABC in which AB = 7 cm, BC = CA = 6 cm. then, draw the line segment from point C that is perpendicular to $\overline{AB}$ and find its length.

Question 3:

A) Complete:

a- If {1, X} = {2, Y}, then X = ... , Y = ...

b- The longest chord in a circle is called .....

c- The probability of failing a student is $\frac{2}{15}$, The probability of success = ...

d- 72 days ≃ ..... weeks

e- {2, X} ∩ {3, 7} = {3}, then X = ...

f- The difference between $\frac{9}{16}$ and 0.5734 is .....

B) The area of a rectangle is 10.25 square meters, and its length is 4.1 meters. Find its width and perimeter.

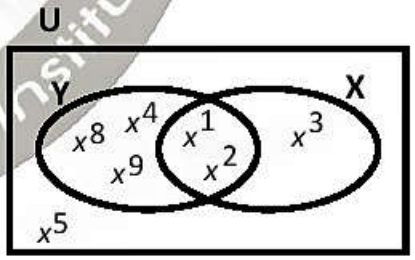
Question 4:

A) Look at the opposite Venn diagram and find the following sets using the listing method:

a) X ∪ Y **b)** X ∩ Y

c) X – Y **d)** Y`

e) (X ∪ Y)`



B) Find the number that if multiplied by 0.37, then the result is 17.8932

C) Choose the correct answer:

a- The number of altitudes in any triangle = …… (1 – 2 – 3)

b- {1,7} …… {0, 1, 2, 3, 4, … } (∈ – ∉ – ⊂ – ⊄)

c- $12\frac{1}{2} \times \frac{4}{5}$ = …… (10 – 100 – 50)

d- If $\overline{AB}$, $\overline{AC}$ are two chord in a circle, then $\overline{BC}$ is a ……(chord – diameter – radius) in the same circle.

e- 5698.65 ÷ 100 = …… (569865 – 56.9865 – 5.69865)

f- X – X = …… (∅ – zero – {0} – {1})

Question 5:

A) Rolling a regular number cube (die). what is the probability of getting an even number and not divisible by 3?

B) Put (✓) for the true sentence and (×) for the false one:

a- The quotient of dividing 265.88 by 2.6588 = 100 ( )

b- The length of the diameter of a circle > the length of any chord which doesn't pass through its center ( )

c- 8 ∈ {5, 7} ( )

d- 439.71 × 1000 = 439710 ( )

e- The line segments drawn from the vertices of the acute triangle perpendicular to the opposite sides intersect at one point inside the triangle. ( )

Question 6:

A) Draw a circle whose center is N and diameter is 6 cm. then draw the diameter $\overline{AB}$ and the chord $\overline{AC}$ in the circle. Draw $\overline{BC}$. Use the protractor to measure $\angle$ ACB , then draw $\overrightarrow{CD} \perp \overline{AB}$ that intersects it at D and the circle at E , then choose the correct answer:

a- The triangle ABC is ……
(right triangle – acute triangle – obtuse triangle)

b- $\overline{CE}$ is …… in the circle (chord – diameter – radius)

c- The intersection point of the perpendicular line segments drawn from the vertices of the triangle ABC to the opposite sides is …
(C – D – E)

B) Divide 375 by 0.5 then add $5\frac{1}{4}$ to the quotient.

Model Exam (3)

Question 1:

- **Find the following:**

a- 75.32489 × 10 = …… ≃ …… (to the nearest thousandth)

b- 12.46 ÷ 0.517 = …… ≃ …… (to the nearest tenth)

c- 700.14 + 55.009 = …… ≃ …… (to the nearest unit)

d- 7.52 ÷ (14.73 – 11.58) = …… ≃ …… (to the nearest $\frac{1}{100}$)

e- $2\frac{1}{8} \div 0.125$ = ……

f- If 4 ∈ {2, X, 7}, then X = ……

g- The midpoint of any diameter in a circle is …… of the circle.

h- A card has been drawn out of 5 cards containing the numbers:

32	25	14	63	27

The probability of selecting a number that the sum of its two digits is 9 =

……

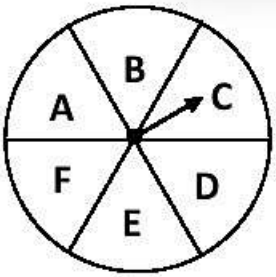
Question 2:

A) Draw the triangle XYZ in which XY = 3 cm, YZ = 5 cm, ZX = 7 cm. determine the types of the triangle according to the measures of its angles, then draw the perpendicular segment from X to $\overline{YZ}$ and measure its length.

B) A spinner is divided into 6 equal sections.

a- What's the probability of spinning on any section?

b- Spinning the spinner 60 times. How many times are predicted to get the letter (A) as an outcome?



Question 3:

A) Rearrange the following fractions descendingly: $\frac{1}{2}$, 0.8 , $\frac{1}{4}$, 0.3

B) The side length of a square is 5.06 meters.
Find its area approximating it to the nearest hundredth.

C) If X = {3, 4, 5} , Y = {2, 3, 4}
Place the suitable symbol ∈ or ∉ or ⊂ or ⊄ in the blanks.

a- 2 X

b- {3, 2} ..... X ∪ Y

c- ∅ ..... Y

d- {3, 5} ..... X ∩ Y

e- 5 ..... X – Y

f- {2, 3, 4} X

Question 4:

A) The following table lists the number of 120 volunteers in 3 groups to make uniforms for cleaners.

Group	Design	Printing	Distribution
Number of volunteers	30	30	60

A volunteer has been randomly selected. What is the probability to be one of the printing group?

B) A truck can hold 125 boxes of oranges at a time. How many times are needed to deliver 4375 boxes by that truck?

Question 5:

A) Choose the correct answer from the parentheses:

a- If {2, 5, 7} = { 5, A, 2} then A = …… (2 – 5 – 7 – 0)

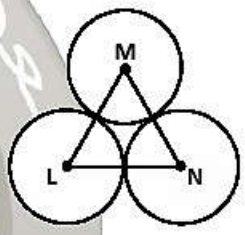
b- If A, B belong to the circle M where M ∈ $\overline{AB}$ then $\overline{AB}$ is called a (chord – diameter – radius) in the circle.

c- 78.26 ÷ 10 …… 7.826 × 10 (> or = or <)

d- {5} – {1, 2, 5} = …… ({5} – {1, 2} – ∅ – {1, 2, 5})

e- If a ∈ X then a …… X` (∈ – ∉ – ⊂ – ⊄)

f- In the opposite figure,
If the length of each radius in the three circles is 3 cm, then the perimeter of the triangle MLN = (6 – 9 – 18) cm



B) Draw a circle whose center is M and radius 2 cm then draw two radii $\overline{MX}$, $\overline{MY}$ and the included angle between them measures 60° then draw $\overline{XY}$ and find the length of $\overline{XY}$.

Model Exam (4)

Answer the following questions :

1 ***Complete each of the following :***

[a] 457.6 ÷ 100 = ... ≃ ..... (to the nearest tenth)

[b] If $X \subset Y$, then $X \cup Y$ = ...

[c] $\frac{5}{7}$ × ..... = 1

[d] If $\{2 , x + 1\} = \{6 , 2\}$, then x = ...

---

2 ***Choose the correct answer :***

[a] $\{43\} \cap \{4 , 3\}$ ..... ($\{3\}$ *or* $\{4\}$ *or* $\{43\}$ *or* $\varnothing$)

[b] If the length of the radius of a circle is 5 cm. , then the length of the longest chord = ... cm. (2 *or* 8 *or* 6 *or* 10)

[c] Any triangle has ..... altitudes (1 *or* 2 *or* 3 *or* 4)

[d] 12 ÷ $\frac{4}{3}$ = ... (9 *or* 16 *or* 6 *or* 8)

---

3 **[a]** ***Find the result then approximate :***

(1) 4.52 × 0.3 = ... ≃ ..... (to the nearest 2 dicimal place)

(2) 24.7 – 7 $\frac{1}{2}$ = ... ≃ .....(to the nearest unit)

(3) 2.46 ÷ 0.6 = ...

[B] ***Arrange in an ascending order :***

7.8 , 7.75 , $6\frac{1}{4}$ and 6.4

---

4 **[a]** If $U = \{1 , 2 , 3 , 4 , 5 , 6 , 7 , 8\}$, $X = \{2 , 4 , 5 , 6\}$ and $Y = \{4 , 5 , 7\}$

Represent these sets by Venn diagram then find :-

(1) $X \cap Y$ **(2)** $X \cup Y$

(3) $X - Y$ **(4)** X'

[b] ***Complete using ($\in , \notin , \subset$ or $\not\subset$) :***

(1) 9 ..... $\{4 , 6 , 9\}$ **(2)** $\{8\}$ ..... $\{0 , 2 , 4 , 6 , \dots\}$

(3) $\varnothing$ ..... $\{0\}$

5 **[a]** Draw the triangle ABC in which AB = 8 cm. , BC = 6 cm. and AC = 10 cm. , then complete : m (∠ B) = ...°

[b] ***Complete :***

(1) The probability of the impossible event = ...

(2) As throwing a metallic coin once , then the number of elements of the sample space = ...

(3) As throwing a fair die once , then the probability of appearing :

(a) An even number = ...

(b) A number greater than 4 = ...

Model Exam (5)

Answer the following questions :

1 ***Complete :***

[a] $\varnothing$ ..... $\{a , b\}$ **[b]** It is ..... that the sun rises from west.

[c] As throwing a fair die once , then the probability of appearing a number less than 3 is .....

[d] The altitudes of the right-angled triangle intersect at .....

---

2 ***Choose the correct answer :***

[a] $63.594 \simeq 63.6$ (to the nearest .....)

(0.1 **or** 0.01 **or** 0.001 **or** 10)

[b] $3\frac{1}{2} \div \frac{7}{12}$ = ...

(6 **or** $\frac{18}{2}$ **or** $\frac{50}{12}$ **or** 4)

[c] 3 ..... $\{303 , 13\}$

($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

[d] The chord which passes through the centre of the circle is called .....

(a diameter **or** a radius **or** a tangent **or** a side)

---

3 [a] ***Arrange ascendingly :*** $14\frac{1}{4}$, 15.025 , 14.375 and $14\frac{1}{8}$

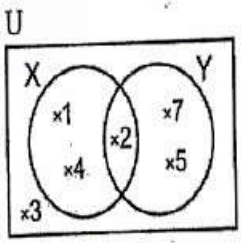
[b] ***From the opposite Venn diagram , write the following sets :***

(1) $\grave{X}$

(2) $X \cup Y$

(3) $X \cap Y$

(4) $Y - X$



4 **[a]** Draw the equilateral triangle ABC whose side length = 5 cm. , then draw $\overline{AD} \perp \overline{BC}$

[b] Find the area of the square whose side length is 5.02 m.. approximating the result to the nearest tenth.

---

5 **[a]** If the price of a piece of sweet is 2.5 pounds. What is the price of 25 pieces of the same kind ?

[b] A bag contains 5 white balls , 9 red balls and 6 black balls , all the balls are identical and equal in the size. If a ball is drawn randomly. What is the probability that the drawn ball is :

(1) Not white. (2) White or red.

Answers
Model Exam (1)

Question 1:

a- 128.7841 ≃ 128.784

b- 51.17 ≃ 51.2

c- 4.495 ÷ 2.8 = 44.950 ÷ 28 = 1.605 ≃ 1.61

d- 9.568 ÷ 9.2 = 95.68 ÷ 92 = 1.04 ≃ 1

e- 4.5 × 9 = 40.5

f- between any two points on the circle

g- 2.9 ton × 1000 = 2900 kg

h- Functional lamps = 24 – 3 = 21, so the probability of getting a functional lamp = $\frac{21}{24} = \frac{7}{8}$

i- X ∩ Y = {3}

j- 254.0 ÷ 24 = 10.5 ≃ 11 days

Question 2:

A) Area = L × W

Length = area ÷ width

= 9.43 ÷ 2.45 = 943.000 ÷ 245 = 3.848 ≃ 3.85 cm

B)

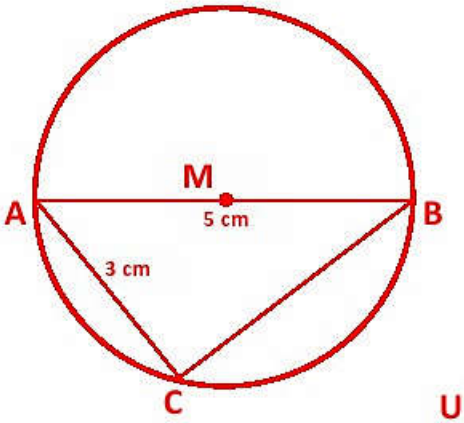
a- 0.1	**>**	0.01
b- 29.189	**<**	39
c-	**=**	
d- 172.4489	**>**	0.17244

Question 3:

A) **a-** $\frac{1}{4}$

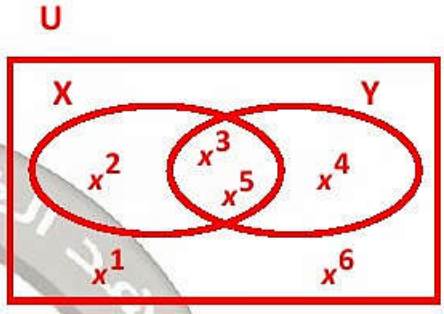
b- First the probability of getting letter A = $\frac{1}{4}$, then the predicted number of getting letter A = 400 × $\frac{1}{4}$ = 100 times

B) BC = 4 cm



Question 4:

A) a) {2, 3, 4, 5}
b) {3, 5}
c) {2}
d) {1, 4, 6}



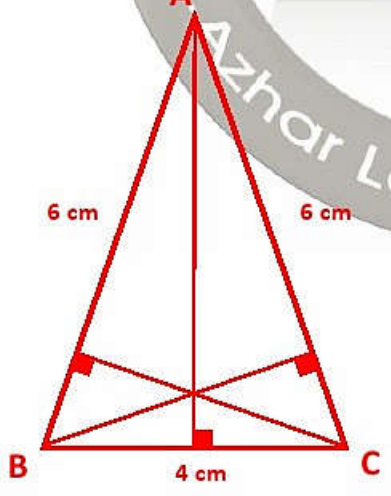
B) 58.62 × 35.2 = 2063.424 ≃ 2063.42

Question 5:

a- 2 **b-** Outside **c-** 0.76 **d-** X **e-** ⊂

Question 6:

A)



B)

a- $\frac{36}{100} = \frac{9}{25}$

b- $\frac{20}{100} = \frac{1}{5}$

c- $\frac{15}{100} = \frac{3}{20}$

d- $\frac{10}{100} = \frac{1}{10}$

Model Exam (2)

Question 1:

a- 606.9765 ≃ 606.98

b- 10.68 ≃ 10.7

c- 1057.65 ≃ 1058

d- 0.26625 ≃ 0.266

e- $\frac{9}{2} \div \frac{5}{10} = \frac{9}{2} \times \frac{10}{5} = \frac{90 \div 10}{10 \div 10} = \frac{9}{1} = 9$

f- 5

g- 8.56 m ÷ 1000 = 0.00856 km

$$\begin{array}{r} 1.775 \\ \times \\ \underline{0.15} \\ 8875 \\ \underline{17750} \\ 0.26625 \end{array}$$

$$\begin{array}{r|l} & 10.68 \\ \hline 152 & 1623.55 \\ & \underline{-152} \\ & 1030 \\ & \underline{-912} \\ & 1235 \\ & \underline{-1216} \\ & R = 19 \end{array}$$

Question 2:

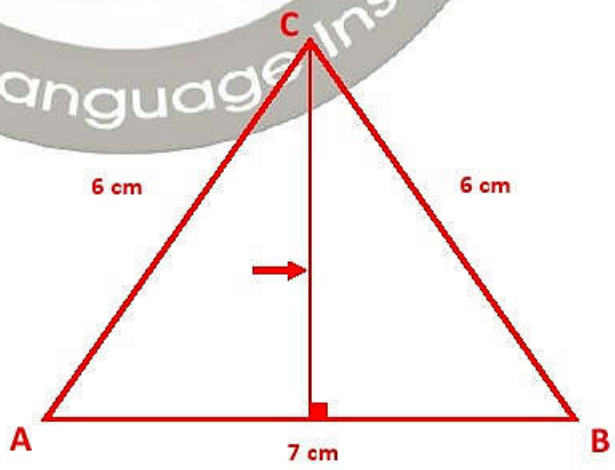
A)

a- The probability of getting an odd number = $\frac{5}{10} = \frac{1}{2}$

b- The probability of getting a prime number = $\frac{4}{10} = \frac{2}{5}$

c- The probability of getting an even number greater than 6 = $\frac{2}{10} = \frac{1}{5}$

B) Length of line segment = 5cm



Question 3:

A) a) X = 2 and Y = 1

b) Diameter

c) The probability of success = $1 - \frac{2}{15} = \frac{13}{15}$

d) 72 ÷ 7 = 10.2 ≃ 10 weeks

e) X = 3

f) $\frac{9}{16}$ = 0.5625, the difference = 0.5734 – 0.5625 = 0.0109

B) Area = L × W

W = 10.25 ÷ 4.1 = 102.5 ÷ 41 = 2.5 m

Perimeter = (L + W) × 2

= (4.1 + 2.5) × 2

= 6.6 × 2 = 13.2 m

```
      002.5
   41 | 102.5
      -82
      205
      -205
      00
```

Question 4:

A)

a- {4, 8, 9, 1, 2, 3}

b- {1, 2}

c- {3}

d- {3, 5}

e- {5}

B) ..... × 0.37 = 17.8932

17.8932 ÷ 0.37 = 1789.32 ÷ 37 = 48.36

```
     0048.36
  37 | 1789.32
     -148
     309
     -296
     133
     -111
     222
     -222
     000
```

C)

a- 3

b- ⊂

c- $\frac{5}{2} \times \frac{2}{5} = 10$

d- Chord

e- 56.9865

f- Ø

Question 5:

A) $\frac{2}{6} = \frac{1}{3}$

B)

a- (✓)

b- (✓)

c- (×)

d- (✓)

e- (✓)

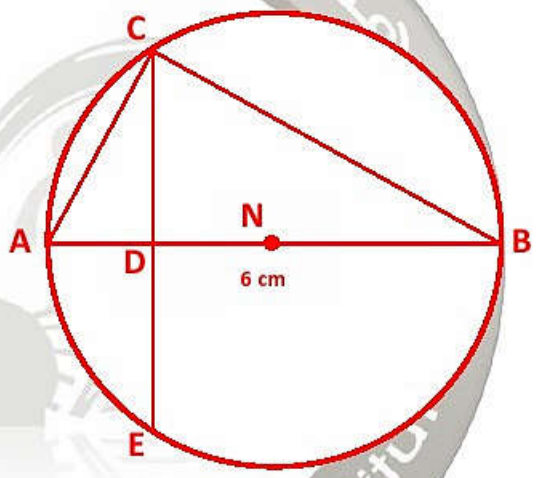
Question 6:

A) M (< A B C) = 90°

a- Right angled triangle

b- Chord

c- C



B) $375 \div 0.5 + 5\frac{1}{4} = 750 + 5\frac{1}{4} = 755\frac{1}{4}$

Model Exam (3)

Question 1:

a- 753.2489 ≃ 753.249

b- 12460 ÷ 517 = 24.10 ≃ 24.1

c- 755.149 ≃ 755

d- 7.52 ÷ 3.15 = 2.3873 ≃ 2.39

e- $\frac{17}{8} \div \frac{125}{1000} = \frac{17}{\cancel{8}} \times \frac{\cancel{1000}}{\cancel{125}} = 17$

f- X = 4

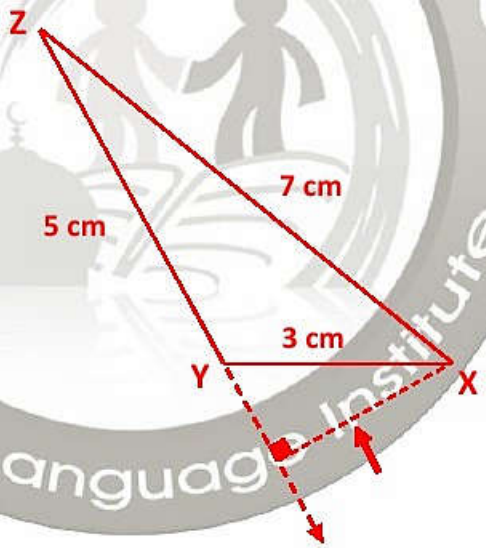
g- Center

h- $\frac{2}{5}$

Question 2:

A) Obtuse angled triangle

Length = 2.5 cm



B)

a- $\frac{1}{6}$

b- The probability of getting letter A = $\frac{1}{6}$

So, the number of times are predicted to get letter A = 60 × $\frac{1}{6}$

= 10 times

Question 3:

A) Answer : 0.5 , 0.8 , 0.25 , 0.3

Arrange : 0.80 , 0.50 , 0.30 , 0.25

B) Area = S × S

= 5.06 × 5.06 = 506 × 506 = 25.6036 m^2 ≃ 25.60 m^2

C)

a- ∉ **b-** ⊂ **c-** ⊂ **d-** ⊄ **e-** ∈ **f-** ⊄

Question 4:

A) The probability to be one of the printing group = $\frac{30}{120} = \frac{1}{4}$

B) The number of times needed = 4375 ÷ 125 = 35 times

Question 5:

A)

a- 7

b- Diameter

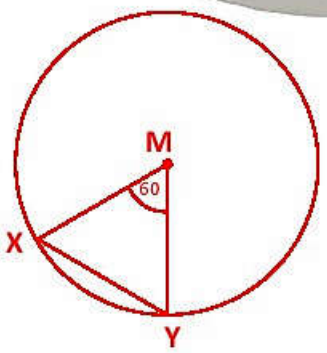
c- <

d- ∅

e- ∉

f- One side = 6 cm , perimeter = 6 + 6 + 6 = 18 cm

B) XY = 2 cm



Model Exam (4)

1) Complete:-

a) 4.576 ≃ 4.6

b) Y

c) $\frac{7}{5}$

d) X = 5

2) Choose:-

a) Ø

b) 10

c) 3

d) $\cancel{12}^{3} \times \frac{3}{\cancel{4}_{1}} = 9$

3) Find:-

1) 1.356 ≃ 1.36

2) 17.2 ≃ 17

3) 4.1

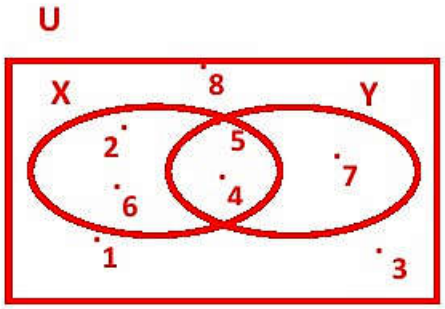
b) Arrange in an ascending order:-

7.80, 7.75, 6.25, 6.40

6.25, 6.40, 7.75, 7.80

4)

a)



1) $X \cap y = \{4, 5\}$

2) $X \cup y = \{2, 4, 5, 6, 7\}$

3) $X - y = \{2, 6\}$

4) $\dot{X} = \{1, 3, 7, 8\}$

b)

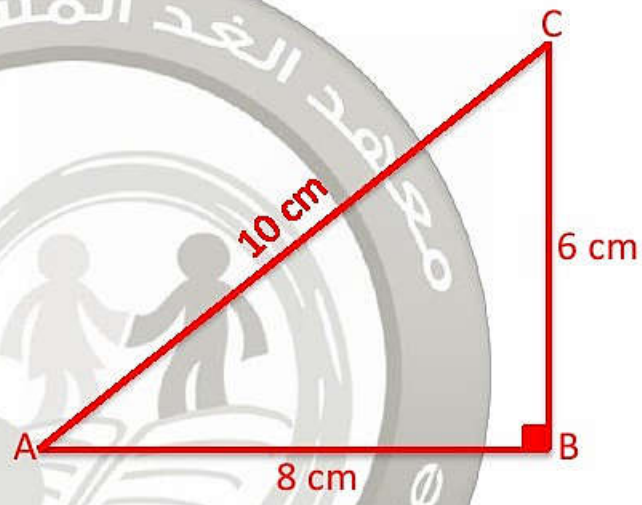
1) $\in$

2) $\subset$

3) $\subset$

5)

a), $(< B) = 90^{\circ}$



b) Complete:-

1) 0

2) 2

3)

a) $\frac{3 \div 3}{6 \div 3} = \frac{1}{2}$

b) $\frac{2 \div 2}{6 \div 2} = \frac{1}{3}$

Model Exam (5)

1) Complete:-

a) ⊂

b) Impossible

c) $\frac{2 \div 2}{6 \div 2} = \frac{1}{3}$

d) The vertex of the right angle.

2) Choose:-

a) 0.1

b) $\frac{\cancel{2}^{1}}{2} \times \frac{12}{\cancel{2}_{1}} = \frac{12}{2} = 6$

c) ∉

d) a diameter.

3)

a) 14.250, 15.025, 14.375, 14.125

14.125, 14.250, 14.375, 15.025

b)

1) $\grave{X}$ = {3, 5, 7}

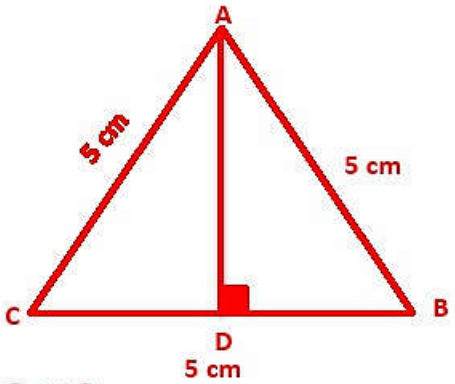
2) X ∪ y = {1, 2, 4, 5, 7}

3) X ∩ y = {2}

4) Y – X = {5, 7}

4)

a)



b) A of square = S × S

= 5.02 × 5.02

= 25.2004 m^2

25.2004 ≃ 25.2 m^2

5)

a) The price = 2.5 × 25 = 62.5 pounds

b)

1) Not white = $\frac{15 \div 5}{20 \div 5} = \frac{3}{4}$

2) White or red = $\frac{14 \div 2}{20 \div 2} = \frac{7}{10}$

Good Luck

Model 1 primary 5

1] Choose the correct answer

A] { 3 } ..... { 1 , 3 , 5 } [$\in$, $\notin$, $\not\subset$, $\subset$]

B] 135.42 ÷ 100 = ... [13542 , 13.542 , 1.3542 , 135.42]

C] { 1 , 2 } $\cup$ { 2 , 3 } = ... [{ 2 } , { 1 , 3 } , { 1, 2 ,3} , Φ]

D] $1\frac{1}{2} \div \frac{1}{4}$ =..... [2.6 , 12 , $\frac{3}{8}$]

E] if the probability of success pupils is $\frac{8}{10}$ then the probability of the failure is ..... [$\frac{1}{8}$, $\frac{3}{10}$, $\frac{1}{5}$, 1]

2] Complete to get the correct answer

A] if 6 $\in$ { 3 , 5 , 2 x } then x = ...

B] 2.5781 $\approx$ ..... to the nearest hundredth

C] When we draw a card from | 1 | | 2 | | 3 | | 4 | | 5 | then the probability of getting a prime number is .....

D] if x $\subset$ y then x $\cap$ y = ...

E] the longest chord in the circle is .....

3] A] if U ={ a:a is a prime number smaller than 15 }

X= { 1 , 3 , 5 } Y = { 1 , 5 , 9 , 12 }

** Represent them by using venn diagram

Find X $\cap$ Y X - Y

B] Find 23 .49 x 4. 2 = ... to the nearest hundredths

4] if a container of oil contains 2 3 6 . 25 Kgm of oil it want to bottled

In a small bottles each of 0 . 75 kgm . Find the number of bottles ?

5] Draw a circle with radius length 3.5 cm . draw the diameter $\overline{AB}$ take the point C $\in$ to the circle . draw the triangle ABC then draw $\overline{CD} \perp \overline{AB}$. D $\in$ $\overline{AB}$ Find the length of $\overline{CD}$

6] A] Find the area of the rectangle whose dimensions are 15.5 m and 7.5 m

B] if a die tossed once calculate the probability of appearance

1] a number greater than 6

2] a number smaller than or equal 6

3] what is the name of each event ?

C] if 5 balls are red out of 40 balls then the number of red balls if the total number is 400 is ……

7] a bid barrel has 236.25 kgm of oil and we want to distribute the oil in small bottles the capacity of each is 0.75 kgm

How many bottles we needed?

Model test 2

Primary 5

1] complete to get correct statement

A] { 2 , 3 , 6 , 12 } ∩ the factors of the number 6 = ……..

B] if { 3 , 5 } = { 1 + x , 3 } then x = …..

C] to draw a circle with diameter 7.2 cm we open the compasses ..

2] Find the result of

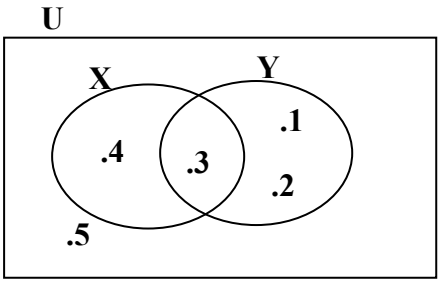
A] $4\frac{1}{2} \div 1.5 =$ ..... B] { 2 , 5 , 8 } - { 3 , 5 , 7 } =….

3] **What is the number that if its multiplied by 0.5 the result will be 33 . 86**

4] by using the opposite venn diagram complete

A] $X \cap Y$ ***B]*** $X \cup Y$

C] $X - Y$ ***D]*** X'



5] Draw the triangle ABC in which AB = 6 cm

M ∠ B = 120 then draw $\overline{AD} \perp \overline{BC}$ **to cut it at D**

Then find the length of $\overline{AD}$

6] A box contains 3 white balls , 7 red balls , 5 yellow balls . all have the same size if a ball was drawn randomly what is the probability that

A] the drawn ball is white **B] the drawn ball not red**

7] Draw a circle M its radius length is 3 cm draw $\overline{AB}$ **diameter in it . state the points C , D , H such that MC = 2 cm , MD = 5 cm , MH = 3cm**

Then complete

A] $\overline{MH}$ **is called ……..** **B]** $\overline{AH}$ **is called ……**

C] the point D lie …… the circle

8] Choose the correct answer

A] { 3 , 7 } ..... { 1 , 3 5 , 7 } [∈ , ∉ , ⊄ , ⊂]

B] 355 ÷ 18 = 3 . 55 ÷ …… [1 . 8 , 18 , , 0.18 , or 1800]

C] the probability of the impossible event is ….. [1 , 2 , 0 , Φ]

D] the smallest fraction is ……. $[\frac{1}{3} , \frac{2}{5} , \frac{5}{8} , \frac{2}{9}]$

E] 1 . 2 5 x 2 . 3 …… 23 x 12 .5 [< , > , =]

Model test 3
Primary 5

1] complete to get the correct statement

A] $\frac{7}{80}$ **≈ …… to the nearest hundredths**

B] { 1 , 2 , 3 , 4 } ∩ the set of prime numbers

C] the probability that Marwan win the match is $\frac{2}{3}$ **then the probability of loss the match is ……..**

D] the longest chord in the circle is ……..

E] X and Y are two sets X ⊂ Y then X∩ Y = …. And X ∪ Y =…

2] A box has 24 electric lamps 3 of them were bad if a lamp was drawn Randomly then the probability of drawn a good lamp is ……..

3] Find the result

A] 178 . 15 - (9 x 3 . 2) = …… to the nearest tenths [$\frac{1}{10}$ **]**

B] (471 . 7 2 + 8 . 28) ÷ 1.5 = ……

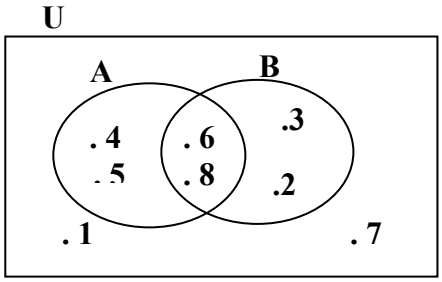
4] a man bought a T .V set for L.E 2000 , he paid 440 in cash , and divides The rest on equally monthly installments the value of each is 3 2 . 5 L.E Find the number of installments.

5] in the opposite venn diagram Complete

A] A ∪ B

B] A - B

C] (A ∪ B)



6] a family consumes 6 . 5 k g of meat monthly each of 3 8 .5 L.E Calculate that the family paid to the nearest pound .

7] Draw the triangle ABC in which AB = 3 cm , BC = 4 cm and CA = 5cm Draw its altitudes then state the point of its intersection .

Grade : 5 Primary
Subject : Math
Time : 2 Hour

Exam Mathematics 2021

10

Question 1 :
Answer The Following :

a) The Number 653 . 365 ≅ 653 . 37 to the nearest .....
b) 44 .....{21 , 27 , 444 , 4 } .
c) 8645 cm ≅ ..... to nearest meter .
d) 4 . 517 × ..... = 451 . 7
e) if $\frac{x}{7} = \frac{12}{28}$, $then\ x = \cdots$
f) { 4 , 5 , 6 } ∪ { 1 , 3 , 4 , 7 } = ...
g) if A is a set and A ⊂ U , then A ∩ $\acute{A}$ = ...
h) The Shaded part represents .....
i) In any triangle , there are ..... heights .
j) $1\frac{1}{2} \div \frac{1}{4}$ = ...

Question 2:
Choose the Correct answer from the parentheses:

a) A circle of radius length 6 cm , then its diameter length = ...cm .
(6 , 12 , 3)
b) 43.791 ÷ 100 = ... (to the nearest hundredth) .
(0.43791 , 0.43 , 0.44)
c) The number of subsets of the set {4 ,7 } equals .....
(2 , 4 , 7)
d) 43 days ≅ .....weeks . (to the nearest week) .
(7 , 6 , 5)
e) $\frac{1}{3}$ ..... $\frac{2}{5}$
(< , > , =)
f) The longest chord in a circle is called a .....
(radius , diameter , chord)
g) When tossing a coin once , the probability of getting a tail = ...
(0 , 0.5 , 1)
h) The smallest number from the following is .....
(0.111 , 0.12 , 1.023)
i) If Y = {2 , 4 , 6} ∩ {1 , 2 , 3 } , then 6 ..... Y .
(∈ , ⊂ , ∉)
j) $4\frac{1}{8} \times 2\frac{2}{3}$ = ...
(11 , 10 , 1)

10

Question 3 :
a) The quotient of dividing : 5. 45 ÷ 0.5 = ...
b) If the price of one meter of cloth is L.E 3.25 , what is the cost of 2.5 ??

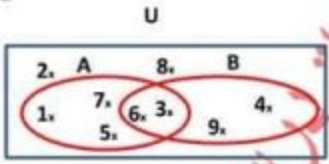
c) An owner of packing food factory wanted to divide 5904 Kg . of sugar equally in 492 packs . What is the weight of each pack ?

d) Arrange the following numbers ascending order : 0.6 , $\frac{3}{8}$, $\frac{3}{4}$, 0.3 .

Question 4 :

a) Use Venn Diagram to list the following sets :

1) A ∩ B = ...
2) A ∪ B = ...
3) B - A = ...
4) A - U = ...
5) (A ∩ B)' = ...
6) (A ∪ B)' = ...



b) Estimate of the result of : 14.7 × 19.3 = ...

Question 5 :

a) A bag contains an amount of marbles of the same size and softness.
If 2 marbles are red , 3 marbles are blue and 5 marbles are white .
A marbles is selected randomly .
Calculate :
a) The probability that the selected marbles is red .
b) The probability that the selected marbles is blue .
c) The probability that the selected marbles is not blue .
d) The probability that the selected marbles is green .
e) The probability that the selected marbles is blue or white .

b) Draw the triangle ABC where AB= 4 cm , BC = 6cm , CA = 8cm.
then draw a circle its center is B and its radius length is 4 cm .

Model Exam 1

First: - Choose the correct answer:

1) { 4, 5} ..... {2, 3, 7 }

a) ⊂ b) ⊄ c) ∈ d) ∉

2) The number of altitudes of the acute angled- triangle is .....

a) zero b) 1 c) 2 d) 3

3) The probability of impossible event = ...

a) zero b)1 c) 2 d)3

4) 7 ..... {17, 77}

a) ⊂ b) ⊄ c) ∈ d) ∉

5) if { 3, 4 } = { 1 + y, 4 }, then y = ...

6) 13542 ÷ 100 = ...

a) 13542 b) 13.542 c) 1.3542 d) 1354.2

7) The probability of success of a pupil in an exam is $\frac{4}{5}$ then the probability of his failing is .....

a) $\frac{1}{5}$ b) $\frac{1}{2}$ c) $\frac{2}{9}$ d) $\frac{1}{4}$

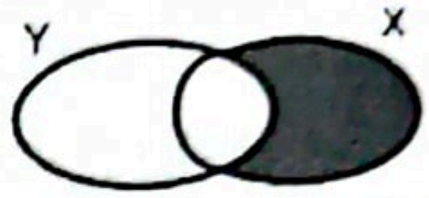
8) If { 5 , 3 } – { 3 , x } = Ø then x = ...

a) zero b)1 c) 5 d) 3

9) If X ⊂ Y , then X ∩ Y = ...

a) X b) Y c) U d) X'

10) The shaded part in the opposite figure represents.....



a) X ∪ Y b) X – Y c) U d) X ∩ Y

11) $2\frac{1}{4} \times 1\frac{2}{3}$ = ...

a) $4\frac{1}{4}$ b) $3\frac{3}{4}$ c) $3\frac{7}{12}$ d) $2\frac{2}{12}$

12) The probability of the certain event = ...

a) zero b) 1 c) 2 d) 3

13) Ø ..... the set of odd numbers.

a) ⊂ b) ⊄ c) ∈ d) ∉

14) If $X \subset Y$, then $X \cup Y$ = ...

a) X b) Y c) U d) X'

15) The altitudes of the obtuse – angled triangle intersect at one point located ..... the triangle .

a) on b) inside c) outside d) at the vertex

16) If a $\in X$, then a ..... X'

a) $\subset$ b) $\notin$ c) $\in$ d) $\notin$

17) A fair die is thrown once; the probability of getting a number divisible by 2 is .....

a) 0 b) $\frac{5}{6}$ c) $\frac{1}{3}$ d) $\frac{1}{2}$

18) As tossing a metallic coin once, the probability of appearing a tail is ...

a) 0 b) 1 c) $\frac{1}{3}$ d) $\frac{1}{2}$

19) A fair die is thrown once; the probability of getting a prime number is .....

a) 0 b) $\frac{5}{6}$ c) $\frac{1}{3}$ d) $\frac{1}{2}$

20)The longest chord ..... the diameter in a circle

a) Longest b) shortest c) equal d) different

21) $\frac{1}{2} \div 2$ = ...

a) $\frac{1}{4}$ b) $\frac{1}{8}$ c) 2 d) $\frac{1}{2}$

22) The lengths of 2 diameters in the same circle are .....

a) Different b) equal c) approximately d)smaller than

23) 37.53 x 10 =.....

a) 375.3 b) 3.753 c) 0.3753 d) 375300

---

24) 4.559 ≃ 4.56 to the nearest .....

a) Tenths b) hundredths c) thousandths d) units

---

25) Any line segment joins any two points on the circle passing through the center of the circle is called .....

a) Radius b) center c) diameter d) chord

---

26) The radius length of a circle with diameter 10 cm equal .....

a) 10 b) 5 c) 11 d) 7

---

27) 72.52 x .....= 7252

a) 10 b)100 c)1000 d)2000

28) $3\frac{1}{8}$ ≈ ..... (to the nearest tenths)

a) 3.1 b) 3.12 c) 3.13 d) 3.125

---

29) To draw a circle with diameter length 20 cm. , then open the compass with length ..... cm.

a) 5 b) 10 c)12 d) 6

Second: - Complete the following:

1) Write the greatest decimal fraction which consists of 3, 5, 4 and 2, then approximate it to the nearest hundredth and to the nearest thousandth.

2) 16.4 ÷ 0.4= .....

.....

.....

.....

3) The number which multiplied by 112, the result will be 3584 is .....

.....

.....

.....

4) 5.4 x 3.2 = ...

.....

.....

.....

5) {8} – { 2, 5, 8} = ...

6) The altitudes of the right angled triangle intersects at the ..... of the right angle.

7) The probability of an event = zero, then this is (a / an).....event.

8) The complement of an empty set is the .....set.

9) The number of sides of a triangle ..... the number of its heights (>, < ,=)

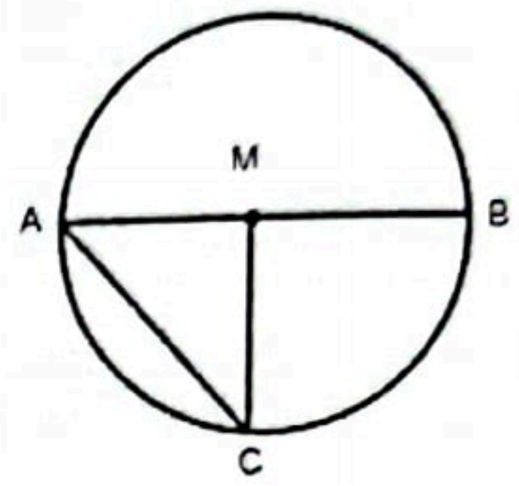
10) $6\frac{1}{4} \div 12\frac{1}{2}$ = ...

11) 4.2254 ≈ ..... (to the nearest hundredth)

12) In the opposite figure:

i) AB is called .....in the circle M

ii) AC is called ..... in the circle M



13) $478.\dot{3}47 - 134.834$ =..... ≈ ..... (to the nearest hundredth)

.....

.....

14) 26.273 + 24.28 =..... ≈ ..... (to the nearest tenth)

.....

.....

Third: - Answer the following :

A) From the opposite figure , Complete:

X= .....

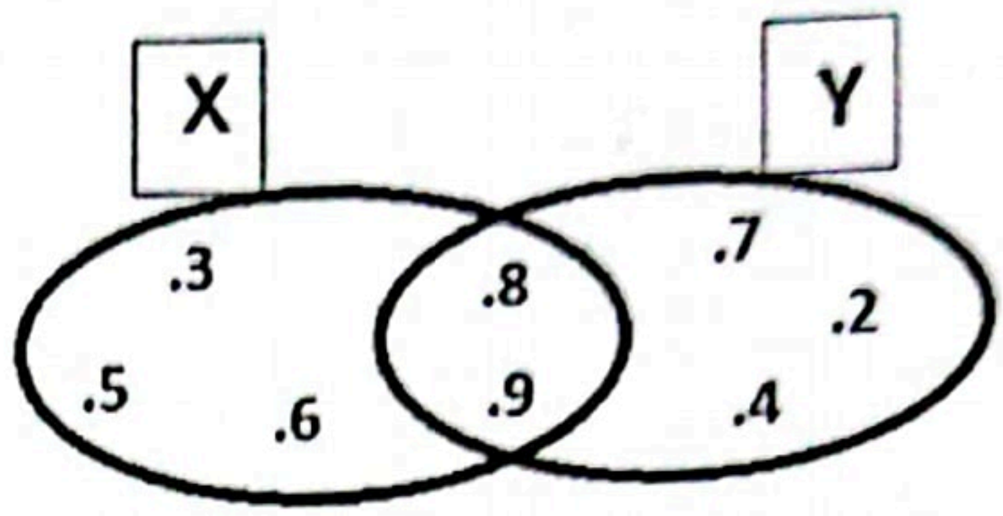
Y= .....

X ∩ Y = ...

X U Y = ...

X – Y = ...

X' = ...



B) Draw the Δ ABC in which AB = 4 cm, BC = 6 cm , and CA = 8 cm then draw a circle whose center is B and its radius length is equal to 4 cm then complete the following :

a) The point A is located ..... the circle

b) The point C is located ..... the circle

c) The ..... is called the radius of the circle.

6) A bag contains 4 red, 6 orange and 8 yellow marbles. Randomly a marble is Selected. Calculate the probability of selecting :

1. Red marbles = ...
2. Black marbles = ...
3. Yellow marbles =.....

Model Exam 1

First: - Choose the correct answer:

1) {4, 5} ..... {2, 3, 7}

a) ⊂ b) ⊄ c) ∈ d) ∉

2) The number of altitudes of the acute angled- triangle is .....

a) zero b) 1 c) 2 d) 3

3) The probability of impossible event = ...

a) zero b)1 c) 2 d)3

4) 7 ..... {17, 77}

a) ⊂ b) ⊄ c) ∈ d) ∈

5) if {3, 4} = {1 + y, 4}, then y = ...

$1 + y = 3 \quad y = 2$

6) 13542 ÷ 100 = ...

a) 13542 b) 13.542 c) 1.3542 d) 1354.2

7) The probability of success of a pupil in an exam is $\frac{4}{5}$ then the probability of his failing is .....

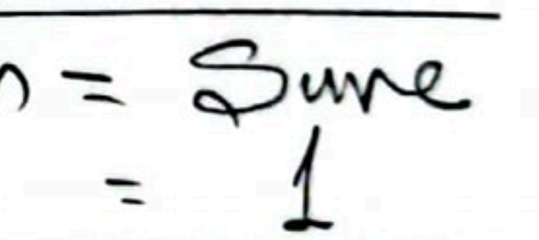
a) $\frac{1}{5}$ b) $\frac{1}{2}$ c) $\frac{2}{9}$ d) $\frac{1}{4}$

8) If { 5 , 3 } – { 3 , x } = Ø then x = ...

a) zero b) 1 c) 5 d) 3

9) If X ⊂ Y , then X ∩ Y = ...

a) X b) Y c) U d) X'



10) The shaded part in the opposite figure represents.....

a) X ∪ Y b) X – Y c) U d) X ∩ Y

11) $2\frac{1}{4} \times 1\frac{2}{3}$ = ... = $\frac{15}{4} = 3\frac{3}{4}$

a) $4\frac{1}{4}$ b) $3\frac{3}{4}$ c) $3\frac{7}{12}$ d) $2\frac{2}{12}$

12) The probability of the certain event = ...

a) zero b) 1 c) 2 d) 3

13) Ø ..... the set of odd numbers.

a) ⊂ b) ⊄ c) ∈ d) ∉

& Subset of any Set

$X - Y = \emptyset$

$X \cap Y = X$

14) If $X \subset Y$, then $X \cup Y =$ ...Y.....

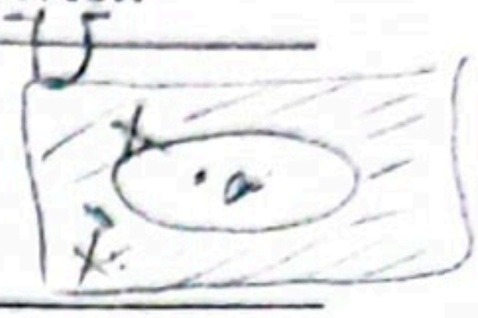
a) X b) Y c) U d) X'

15) The altitudes of the obtuse – angled triangle intersect at one point located ..... the triangle .

a) on b) inside c) outside d) at the vertex

16) If a $\in$ X , then a ..... X'

a) $\subset$ b) $\not\subset$ c) $\in$ d) $\notin$



17) A fair die is thrown once; the probability of getting a number divisible by 2 is ....Even number

a) 0 b) $\frac{5}{6}$ c) $\frac{1}{3}$ d) $\frac{1}{2}$

Head, tail, Even, odd, Prime $= \frac{1}{2}$

18) As tossing a metallic coin once, the probability of appearing a tail is ...

a) 0 b) 1 c) $\frac{1}{3}$ d) $\frac{1}{2}$

19) A fair die is thrown once; the probability of getting a prime number is .....

a) 0 b) $\frac{5}{6}$ c) $\frac{1}{3}$ d) $\frac{1}{2}$

diameter

20)The longest chord .....=... the diameter in a circle

a) Longest b) shortest c) equal d) different

21) $\frac{1}{2} \div \frac{2}{1} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

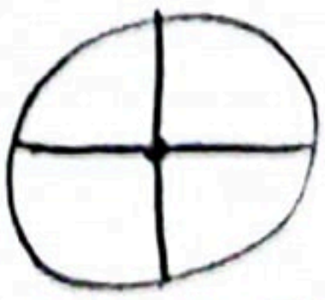
a) $\frac{1}{4}$ b) $\frac{1}{8}$ c) 2 d) $\frac{1}{2}$

22) The lengths of 2 diameters in the same circle are .....

a) Different b) equal c) approximately d)smaller than

diameters are equal

radii are equal



23) 37.53 x 10 =.....

a) 375.3 b) 3.753 c) 0.3753 d) 375300

24) 4.559 ≃ 4.56 to the nearest .....

a) Tenths b) hundredths c) thousandths d) units

25) Any line segment joins any two points on the circle passing through the center of the circle is called .....

a) Radius b) center c) diameter d) chord

26) The radius length of a circle with diameter 10 cm equal .....

a) 10 b) 5 c) 11 d) 7

27) 72.52 x .....= 7252

a) 10 b)100 c)1000 d)2000

$\frac{1}{8}=0.125$ $\frac{1}{2}=0.5$ $\frac{3}{4}=0.75$ $\frac{1}{4}=0.25$

28) $3\frac{1}{8} \approx$ 3.125 ..... (to the nearest tenths)

a) 3.1 b) 3.12 c) 3.13 d) 3.125

29) To draw a circle with diameter length 20 cm. , then open the compass with length ..... cm. radius

a) 5 b) 10 c)12 d) 6

Second: - Complete the following:

1) Write the greatest decimal fraction which consists of 3, 5, 4 and 2, then approximate it to the nearest hundredth and to the nearest thousandth. decimal is 0.5432

hundredths = 0.54

thousandth. = 0.543

2) $16.4 \div 0.4 =$ 41

164 ÷ 4 = 41

1	4
2	8
3	12
4	16
5	20

× 4

$$\begin{array}{r} 41 \\ 4 \overline{)\,164} \\ -16 \\ \hline 04 \\ -4 \\ \hline 0 \end{array}$$

3) The number which multiplied by 112, the result will be 3584 is 32

$\times 112 = 3584$

3584 ÷ 112 = 32

The number is 32

1	112	112
2	224	
3	336	

$$\begin{array}{r} 32 \\ 112 \overline{)\,3584} \\ -336 \\ \hline 224 \\ -224 \\ \hline 000 \end{array}$$

4) 5.4 x 3.2 = 17.28

54

× 32

108

+ 1620

1728

$108 = 17.28$

5) {8} – { 2, 5, 8} = ∅ خال = بكتب الباقى من الأولى

6) The altitudes of the right angled triangle intersects at the vertex of the right angle.

acute → inside

obtuse → Outside

7) The probability of an event = zero, then this is (a / an) Impossible event.

Certain = Sure = 1

Impossible = 0

Possible = $0 \xrightarrow{161} 1$ 0.5, 0.3, $\frac{1}{4}$

8) The complement of an empty set is the universal set. $\phi' = U$ $U' = \phi$

9) The number of sides of a triangle = the number of its heights (>, <, =) 3 3 altitudes

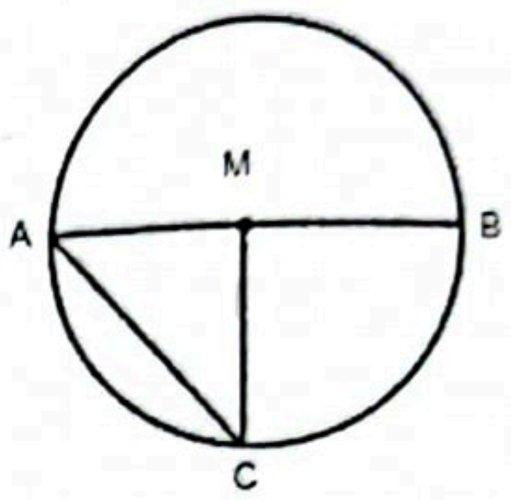
10) $6\frac{1}{4} \div 12\frac{1}{2} = \frac{25}{4} \div \frac{25}{2} = \frac{25}{4} \times \frac{2}{25} = \frac{1}{2}$

11) 4.2254 ≈ 4.23 (to the nearest hundredth)

12) In the opposite figure:

i) AB is called diameter in the circle M

ii) AC is called Chord. in the circle M



13) 478.347 – 134.834 = 343.513 ≈ 343.51 (to the nearest hundredth)

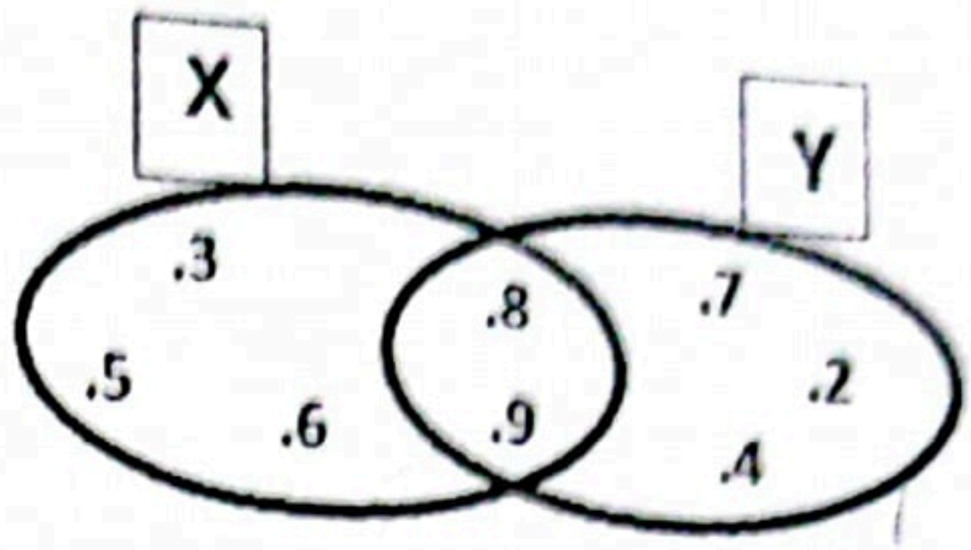
$$\begin{array}{r} 478.347 \\ -\ 134.834 \\ \hline 343.513 \end{array}$$

14) 26.273 + 24.28 = 50.553 ≈ 50.6 (to the nearest tenth)

$$\begin{array}{r} 26.273 \\ +\ 24.280 \\ \hline 50.553 \end{array}$$

Third: - Answer the following :

A) From the opposite figure , Complete:



X = {5, 3, 1, 6, 1, 8, 1, 9, 7}.....

Y = {8, 1, 9, 1, 7, 1, 2, 1, 4, 3}....

X ∩ Y = {8, 1, 9}.....

X U Y = {3, 6, 5, 8, 9, 7, 2, 4}.....

X - Y = {3, 5, 6}.....

X' = {7, 2, 4}.....

B) Draw the Δ ABC in which AB = 4 cm, BC = 6 cm , and CA = 8 cm then draw a circle whose center is B and its radius length is equal to 4 cm then complete the following :

a) The point A is located ..on..... the circle

b) The point C is located ..out side..... the circle

c) The $\overline{BA}$..... is called the radius of the circle.

$4+6+8=18$

6) A bag contains 4 red, 6 orange and 8 yellow marbles. Randomly a marble is Selected. Calculate the probability of selecting :

1. Red marbles = $\frac{4 \div 2}{18 \div 2} = \frac{2}{9}$
2. Black marbles = 0
3. Yellow marbles = $\frac{8 \div 2}{18 \div 2} = \frac{4}{9}$